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UNIVERSITY OF ILLINOIS

BRYN MAWR COLLEGE.

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PROGRAM

OF

GRADUATE COURSES.

---

1896.



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# BRYN MAWR COLLEGE.

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PROGRAM  
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1896.

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Philadelphia.*

# BRYN MAWR COLLEGE.

## COLLEGE CALENDAR.

1896.

JANUARY.

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1897.

JANUARY.

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JUNE.

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The present academic year will close with the Conferring of Degrees at eleven o'clock, on June 4th, 1896.

There will be a winter recess from December 20th, at one o'clock, to

January 6th, at nine o'clock ; and a spring recess from April 1st, at one o'clock, to April 9th, at nine o'clock.

The first semester will end February 7th ; half-yearly examinations will be held during the last two weeks of the semester, from January 27th to February 7th.

The second semester will begin February 10th, at nine o'clock.

The lectures and class-work of the twelfth academic year will begin September 29th, 1896, at nine o'clock, and will close June 3d, 1897.

There will be a winter recess from December 18th, 1896, at one o'clock, to January 4th, 1897, at nine o'clock ; and a spring recess from April 14th, at one o'clock, to April 22d, at nine o'clock.

The first semester will end February 5th, 1897 ; half-yearly examinations will be held during the last two weeks of the semester, from January 25th to February 5th.

The second semester will begin February 8th, 1897, at nine o'clock.

BOARD OF TRUSTEES.

PHILIP C. GARRETT,  
*President.*

HENRY TATNALL,  
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EDWARD BETTLE, JR.,  
*Secretary.*

JAMES CAREY THOMAS, Baltimore.	EDWARD BETTLE, JR., Philadelphia.
JOHN B. GARRETT, Rosemont.	HOWARD COMFORT, Philadelphia.
CHARLES HARTSHORNE, Philadelphia.	JUSTUS C. STRAWBRIDGE, Philadelphia.
DAVID SCULL, Philadelphia.	THOMAS SCATTERGOOD, Philadelphia.
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PHILIP C. GARRETT, Philadelphia.	JAMES WOOD, Mt. Kisco, N. Y.
ALEXANDER C. WOOD, Philadelphia.	

## ACADEMIC APPOINTMENTS.

M. CAREY THOMAS, PH.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

CHARLOTTE ANGAS SCOTT, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England 1880-83; D.Sc., University of London, 1885.

EDWARD H. KEISER, PH.D., *Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry, Swarthmore College, 1880-81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882-84; Ph.D., Johns Hopkins University, 1884; Student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884-85.

HERMANN COLLITZ, PH.D., *Associate Professor of Comparative Philology and German.*

Bleckede, Hanover, Germany. University of Göttingen, 1875-78; University of Berlin, 1878-81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885-86.

JAMES HARKNESS, A.M. (*Cambridge and London*), *Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, University of Cambridge, England, 1882; Graduate in Honors (8th Wrangler) in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, PH.D., *Professor of Greek.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipsic, 1879-81; University of Göttingen, 1881-83; Instructor in Classics and Sanskrit, Williams College, 1883-85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885-87; Reader in Greek Literature, Johns Hopkins University, 1887-88.

MARY GWINN, PH.D., *Associate Professor of English.*

Studied at the University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and graduate student, 1887-88; Ph.D., Bryn Mawr College, 1888.

CHARLES McLEAN ANDREWS, PH.D., *Associate Professor of History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888-89; Ph.D., Johns Hopkins University, 1889.

GONZALEZ LODGE, PH.D., *Professor of Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883-86; Ph.D., Johns Hopkins University, 1886; Professor of Greek, Davidson College, 1886-88; American School of Classical Studies, Athens, 1888-89; University of Bonn, 1889.

GEORGE A. BARTON, PH.D., *Associate Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891.



JOSEPH AUGUSTE FONTAINE, PH.D., *Professor of Romance Languages.*

College of Sion, Nancy, France, 1879; Paris, 1880-81; Johns Hopkins University, 1882-86; Ph.D., Johns Hopkins University, 1886; Collège de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886-87; Instructor, University of Nebraska, 1887-89; Professor of Modern Languages, University of Mississippi, 1889-91.

ARTHUR STANLEY MACKENZIE, PH.D., *Associate Professor of Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887-89; Fellow, Johns Hopkins University, 1890-91; Ph.D., Johns Hopkins University, 1894.

JAMES DOUGLAS BRUCE, PH.D., *Associate in English Philology.*

A.M., University of Virginia, 1883; University of Berlin, 1886-88; University of Strasburg, 1888; Johns Hopkins University, 1889-90; Professor of Modern Languages, Centre College, 1890-91; Ph.D., Johns Hopkins University, 1894.

THOMAS HUNT MORGAN, PH.D., *Professor of Biology.*

B.S., State College, Kentucky, 1886, and M.S., 1888; Graduate Scholar, Johns Hopkins University, 1888-89; Fellow in Biology, Johns Hopkins University, 1889-90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890-91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871-72; University of Leipsic, 1872-73; University of Bonn, 1873-79; M.D., University of Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881-91; Lecturer in Medical Department of the University of the City of New York, 1885-86; Lecturer in Physiology, University of Michigan 1889.

DICKINSON SERGEANT MILLER, PH.D., *Associate in Philosophy.*

University of Pennsylvania, 1885-88; Fellow in Philosophy, Clark University, 1889-90; Morgan Fellow, Harvard University, 1890-91; Walker Fellow, Harvard University, 1891-92; A.B. and A.M., Harvard University, 1892; University of Berlin, 1892-93; Ph.D., University of Halle, 1893.

ELMER P. KOHLER, PH.D., *Associate in Chemistry.*

A.B., Muhlenberg College, 1886, and A.M., 1889; Johns Hopkins University, 1889-91; Fellow in Chemistry, Johns Hopkins University, 1891-92; Ph.D., Johns Hopkins University, 1892.

EDGAR BUCKINGHAM, PH.D., *Associate in Physics and Physical Chemistry.*

A.B., Harvard University, 1887; Assistant in Physics, Harvard University, 1888-89; Assistant in Physics, University of Strasburg, 1889-90; University of Leipsic, 1890-91; Assistant in Physics, Harvard University, 1891-92; Tyndall Scholar of Harvard University, University of Leipsic, 1892-93; Ph.D., University of Leipsic, 1893.

LINDLEY MILLER KEASBEY, PH.D., R.P.D., *Associate Professor of Political Science.*

A.B., Harvard University, 1888; A.M., Columbia College, 1889; Ph.D., Columbia College, 1890; University of Berlin, 1890-91; University of Strasburg, 1891-92; *Rerum Politicarum Doctor*, University of Strasburg, 1892; Assistant in Economics, Columbia College, and Lecturer on Political Science, Barnard College, 1892; Professor of History, Economics and Political Science, State University of Colorado, 1892-94.

MORTIMER LAMSON EARLE, PH.D., *Associate Professor of Greek and Latin.*

A.B., Columbia College, 1886, A.M., 1887, and Ph.D., 1889; American School of Classical Studies, Athens, 1887-88; in charge of excavations at Sicyon, December, 1887, and July and August, 1891; studied at Bonn, 1887-88; studied at Berlin, 1889; Assistant in Greek, Columbia College, 1886-89; Acting Assistant in Latin, Columbia College, 1886-87; Instructor in Greek, Barnard College, 1889-95; Lecturer in Greek, Columbia College, 1894-95.

PAUL ELMER MORE, A.M., *Associate in Sanskrit and Classical Literature.*

A.B., Washington University, 1887, and A.M., 1891; A.M., Harvard University, 1893; Assistant in Indo-Iranian Languages, Harvard University, 1894-95.

ALFRED HODDER, *Associate in English Literature.*

Graduate School, Harvard University, 1890-91; Morgan Fellow, Harvard University, 1891-92; University of Freiburg, University of Berlin, 1892-93.

MAX F. BLAU, PH.D., *Associate in German Literature.*

Ph.D., University of Leipsic, 1888; Teacher of German, Berlitz School of Languages, Boston, 1891-92; Master of French and German, Thayer Academy, Braintree, Mass., 1892-96.

RICHARD NORTON, A.B., *Lecturer in the History of Art.*

A.B., Harvard University, 1892; American School of Classical Studies, Athens, 1892-94  
University of Munich, 1894-95.

FLORENCE BASCOM, PH.D., *Lecturer in Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887; Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893; Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

OLIVER M. JOHNSTON, PH.D., *Lecturer in French Philology.*

A.B., Mississippi College, 1890, and A.M., 1892; Professor of English, Mississippi College, 1891-93; Fellow, Johns Hopkins University, 1895-96; Ph.D., Johns Hopkins University, 1896.

LIGHTNER WITMER, PH.D., *Non-resident Lecturer in Experimental Psychology.*

A.B., University of Pennsylvania, 1888; Graduate Student, University of Pennsylvania, 1888-90; Assistant in Experimental Psychology, University of Pennsylvania, 1890-91; University of Leipsic, 1891-92; Ph.D., University of Leipsic, 1892; Assistant Professor of Experimental Psychology, University of Pennsylvania, 1892-97.

FREDERIC M. PAGE, PH.D., *Non-resident Lecturer in Italian and Spanish.*

Collège Chaptal, Paris; attended Studi Superiori, Florence; Instructor in Languages, University of Virginia, 1880-82; Acting Professor of Modern Languages and Literature, University of the South, 1882-83; Professor of Modern Languages and Literature, University of the South, 1883-91; Reader in Romance Languages, Bryn Mawr College, 1892-95; Ph.D., University of Heidelberg, 1895; Instructor in French, University of Pennsylvania, 1896-97.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honors, Newnham College, University of Cambridge, England, 1886 (Mediæval and Modern Languages Tripos, First Class).

ABBY KIRK, A.B., *Reader in English.*

A.B., Bryn Mawr College, 1892.

HARRIET RANDOLPH, PH.D., *Demonstrator in Biology and Reader in Botany.*

A.B., Bryn Mawr College, 1889; Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-92; Ph.D., University of Zürich, 1892.

FLORENCE V. KEYS, A.B., *Reader in English.*

A.B., University of Toronto, 1891; Fellow in Greek, Bryn Mawr College, 1891-92; Fellow in English, Bryn Mawr College, 1892-93; Examiner in English in the University of Toronto, 1894-95.

LUCY MARTIN DONNELLY, *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

HELEN WHITALL THOMAS, *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Leipsic, 1893-94, Second Semester; Sorbonne and Collège de France, and University of Leipsic, 1894-95; Bryn Mawr College, 1895-96.

ALICE BERTHA FOSTER, M.D., *Director of the Gymnasium.*

Graduate of Dr. Sargent's Training School for Teachers, 1886; M.D., Medical School of University of Buffalo, 1891; Anderson Summer School, Chautauqua, 1892; Studied in Baron Posse's Normal Class in Practice, Boston, and in Harvard Summer School of Phys. Ed., 1886; Director Buffalo Sanatory Gymnasium of the Women's Educational and Industrial Union, Buffalo, 1886-92; Assistant Teacher, Harvard Summer School of Phys. Ed., 1889-90; Tutor in Phys. Culture (in charge of the Women's Work), University of Chicago, 1892-94.

MARY SHERWOOD, M.D., *Lecturer on Hygiene and Physician of the College.*

A.B., Vassar College, 1883; M.D., University of Zürich, 1890; Lecturer on Pathology at the Woman's Medical College of Philadelphia, 1891-96.

HENRIETTA R. PALMER, A.B., *Librarian.*

School of Library Economy, Columbia College, 1887-89; Acting Librarian, Bryn Mawr College, 1890-91; A.B., Bryn Mawr College, 1893; Associate Librarian, Bryn Mawr College, 1893-95.

JANE BOWNE HAINES, A.M., *Associate Librarian.*

A.B., Bryn Mawr College, 1891, and A.M., 1892; Fellow in History, Bryn Mawr College, 1892-93.

MADELINE VAUGHAN ABBOTT, A.B., *Secretary.*

A.B., Bryn Mawr College, 1893; Secretary to the Dean, Bryn Mawr College, 1893-94.

ISABEL MADDISON, B.Sc., *Secretary to the President.*

B.Sc., University of London, 1893; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

MARY HARRIS, A.B., *Recording Secretary.*

A.B., Bryn Mawr College, 1894.

FREDERICKA M. KERR, *Bursar.*

### *Honorary Corresponding Secretaries.*

MARY MCMURTRIE, A.B., *Chestnut Hill*, PHILADELPHIA.

SOPHIA WEYGANDT HARRIS, A.B. (MRS. JOHN MCARTHUR HARRIS), 5305  
*Main Street*, GERMANTOWN.

EDITH PETTIT, A.B., 2205 *Trinity Place*, PHILADELPHIA.

BERTHA HAVEN PUTNAM, A.B., 245 *W. 75th Street*, NEW YORK CITY.

MARGARET THOMAS CAREY, A.B. (MRS. ANTHONY MORRIS CAREY), 832  
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EMILY GREENE BALCH, A.B., *Prince Street, Jamaica Plain*, BOSTON.

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ALYS PEARSALL SMITH RUSSELL, A.B. (HON. MRS. BERTRAND RUSSELL), 44  
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### *The Academic Committee of the Alumnae.*

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JANE LOUISE BROWNELL, A.M., *The Bryn Mawr School*, BALTIMORE.

JULIA COPE COLLINS, A.B. (MRS. WILLIAM H. COLLINS), HAVERFORD, PA.

ELIZABETH WARE WINSOR, A.B., 36 *Newbury Street*, BOSTON.

RUTH GENTRY, PH.D., *Vassar College*, POUGHKEEPSIE, NEW YORK.

# EUROPEAN FELLOWS, AND FELLOWS AND GRADUATE STUDENTS IN RESIDENCE, 1895-96.

FLORENCE LEFTWICH, . . . *Holder of the Bryn Mawr European Fellowship.*  
Baltimore, Md. Wellesley College, 1884-85; A.B., Bryn Mawr College, 1895. Student in Romance Languages, Sorbonne and Collège de France, 1895-96.

EDITH HAMILTON, . . . *Holder of the Mary E. Garrett European Fellowship.*  
Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894. Fellow in Latin, Bryn Mawr College, 1894-95; Student in Greek and Latin, University of Leipsic, 1895-96.

ELEANOR PURDIE, . . . . . *Fellow in Greek.*  
London, England. Newnham College, University of Cambridge, England, 1890-94; Classical Tripos, Part I, First Class, 1893; Part II, 1894. Holder of the Marion Kennedy Studentship, and Student in Indo-European Philology, University of Freiburg, 1894-95.

JENNETTE ATWATER STREET, . . . . . *Fellow in Latin.*  
Toronto, Canada. A.B., University of Toronto, 1895.

PHOEBE A. B. SHEAVYN, . . . . . *Fellow in English.*  
Atherstone, England. Scholar, University College of Wales, Aberystwyth, Wales, 1887-89 and 1892-94; A.B., University of London, 1889, and A.M., 1894. Member of Governing Court of University of Wales, 1894; Reader in English, Bryn Mawr College, 1894-95.

MINNA STEELE SMITH, . . . . . *Fellow in German and Teutonic Philology.*  
Edinburgh, Scotland. Newnham College, University of Cambridge, England, 1890-94; Medieval and Modern Language Tripos, University of Cambridge, First Class, 1893. Fellow in German and Teutonic Philology, Bryn Mawr College, 1894-95.

ANNA LEWIS COLE, . . . . . *Fellow in Romance Languages.*  
Baltimore, Md. A.B., The Woman's College of Baltimore, 1892, and A.M., 1894. Student in English and French, Sorbonne, 1894-95.

ELEANOR LOUISA LORD, . . . . . *Fellow in History.*  
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890. Fellow in History, Bryn Mawr College, 1889-90; Instructor in History, Smith College, 1890-94; Student in History, Newnham College, University of Cambridge, England, 1894-95.

EMILIE NORTON MARTIN, . . . . . *Fellow in Mathematics.*  
Ardmore, Pa. A.B., Bryn Mawr College, 1894. Graduate Student in Mathematics, Bryn Mawr College, First Semester, 1894-95; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895.

MARY PETTY, . . . . . *Fellow in Chemistry.*  
Greensboro, N. C. S.B., Wellesley College, 1885. Teacher of Latin, Guilford College, 1888-93; Teacher of Chemistry and Physics, State Normal School, Greensboro, 1893-95.

CLARA LANGENBECK, . . . . . *Fellow in Biology.*  
Cincinnati, O. Ph.G., Cincinnati College of Pharmacy, 1890. S.B., University of Cincinnati, 1895.

MARY ESTELLA BENSON, . . . . . *History and Political Science.*  
Milwaukee, Wis. LL.B., University of Michigan, 1893, and LL.M., 1894. Student in Political Science, University of Chicago, Oct., 1894-Feb., 1895.

ESTHER F. BYRNES, . . . . . *Biology.*  
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Assistant in Biological Laboratory, Vassar College, 1890-93; Graduate Scholar in Biology, Bryn Mawr College, 1893-94; Fellow in Biology, Bryn Mawr College, 1894-95.

EVANGELINE ST. CLAIR CHAMPLIN, . . . . . *Graduate Scholar in English.*  
Alfred, N. Y. L.B., Alfred University, 1887, and Lit.M., 1888. Graduate Student in English, Bryn Mawr College, 1891-92.

THÉRÈSE F. COLIN, . . . . . *Romance Philology.*  
Paris, France. Diplômée et agrégée, Collège de Neuchâtel, 1875; A.M., Leland Stanford, Jr. University, 1893; Muséum d'Histoire Naturelle, Paris, 1883-85; University of the City of New York, 1887-88; Fellow in Romance Languages, Bryn Mawr College, 1893-94; Student in Romance Philology and Literature, Sorbonne, Collège de France, École des Hautes



- Etudes, Ecole des Chartes, Paris, 1895; Reader in Romance Languages, Bryn Mawr College, 1894-96.
- MARIE CRAIG, . . . . . *History and French.*  
Grove City, Pa. A.B., Grove City College, 1892.
- JENNIE DALE, . . . . . *French and Italian.*  
Grove City, Pa. A.B., Grove City College, 1891. Instructor in History, Grove City College, 1893-95.
- JESSIE DARLING, . . . . . *Graduate Scholar in French and Italian.*  
Toronto, Canada. A.B., University of Toronto, 1895.
- LUCY MARTIN DONNELLY, . . . . . *English and Greek.*  
Brooklyn, N. Y. A.B., Bryn Mawr College, 1893. Student in English and Greek, University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95; Reader in English, Bryn Mawr College, 1895-96.
- ANNIE CROSBY EMERY, . . . . . *Greek and Latin.*  
Ellsworth, Me. A.B., Bryn Mawr College, 1892. Holder of the Bryn Mawr European Fellowship, and Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93; Student in Greek and Latin, University of Leipsic, 1893-94; Secretary to the President, and Graduate Student in Greek and Latin, Bryn Mawr College, Second Semester, 1894-95, and 1895-96.
- LUCY FRANCISCO, . . . . . *Mathematics and Chemistry.*  
Richmond, Ind. S.B., Earlham College, 1895. Holder of Earlham Graduate Scholarship, Bryn Mawr College, 1895-96.
- LULU GARLOW, . . . . . *English.*  
Morgantown, W. Va. A.B., Beaver College, 1891. A.B., West Virginia University, 1893; Graduate Student in English and German, Bryn Mawr College, 1894-95.
- FANNY COOK GATES, . . . . . *Graduate Scholar in Mathematics.*  
Waterloo, Ia. L.B., Northwestern University, 1894, and L.M., 1895. Fellow in Mathematics, Northwestern University, 1894-95.
- HENRYANNA CLAY HACKNEY, . . . . . *Greek and English.*  
Guilford College, N. C. A.B., Guilford College, 1895. Holder of Guilford Graduate Scholarship, Bryn Mawr College, 1895-96.
- EMILY BEVAN HARRINGTON, . . . . . *Graduate Scholar in English.*  
Halifax, N. S. A.B., Dalhousie College and University, 1892, and A.M., 1894.
- HARRIET FRAZIER HEAD, . . . . . *Graduate Scholar in Biology.*  
Philadelphia, Pa. A.B., Bryn Mawr College, 1891. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Philadelphia, 1891-94.
- GERTRUDE ORREN HUNNICUTT, . . . . . *History and Political Science.*  
Lawrence, Kan. A.B., State University of Kansas, 1889. Graduate Student in Greek and French, University of Kansas, 1889-90; Assistant in the Newberry Library, Chicago, Ill., 1892-93; Graduate Student in German and Political Science, Bryn Mawr College, Second Semester, 1894-95; Foundation Scholar, Bryn Mawr College, 1895-96.
- MARY JEFFERS, . . . . . *Greek and Latin.*  
York, Pa. Classical Course, Wellesley College, 1885-86; A.B., Bryn Mawr College, 1895. Teacher of Greek and Latin in the York Collegiate Institute, York, Pa., 1893-96; Teacher of Latin Prose Composition in the Misses Shipley's School, Bryn Mawr, Pa., 1895-96.
- FLORENCE V. KEYS, . . . . . *English.*  
Toronto, Canada. A.B., University of Toronto, 1891. Fellow in English, Bryn Mawr College, 1891-92; Fellow in Greek, Bryn Mawr College, 1892-93; Examiner in English in the University of Toronto, 1894-95; Reader in English, Bryn Mawr College, 1893-96.
- HELEN DEAN KING, . . . . . *Graduate Scholar in Biology.*  
Owego, N. Y. A.B., Vassar College, 1892. Graduate Student in Biology, Vassar College, and Assistant in the Biological Laboratory, 1894-95.
- ABBY KIRK, . . . . . *English.*  
Philadelphia, Pa. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1892. Reader in English, Bryn Mawr College, 1892-96.

- CAROLINE W. LATIMER, . . . . . *Physiology*.  
Baltimore, Md. M.D., Woman's Medical College of Baltimore, 1890. Post-Graduate Medical Course, Johns Hopkins Hospital, 1890-91; Graduate Student, Bryn Mawr College, 1891-95.
- FRANCES LOWATER, . . . . . *Physics*.  
Nottingham, England. University College, Nottingham, 1888-91, 1892-93; Newnham College, University of Cambridge, England, 1891-92; Assistant Demonstrator in Physics, Bryn Mawr College, 1893-96.
- SARAH BIRD LUCY, . . . . . *Mathematics and Physics*.  
Minneapolis, Minn. B.S., University of Minnesota, 1892. Teacher of Mathematics and Science, Bishop Graves School, 1892-93; Teacher in High School, Kearney, Neb., 1893-94; Graduate Student in Mathematics, Bryn Mawr College, 1894-95.
- DOROTHY WILBERFORCE LYON, . . . *Graduate Scholar in Teutonic Philology*.  
Elizabeth, N. J. A.B., Wells College, 1887. Graduate Student in English, Bryn Mawr College, 1887-89, and First Semester, 1892-93, and Graduate Scholar in English, 1893-94; Head Teacher of English, and Teacher of History, in the Randolph-Harrison School, Baltimore, Md., 1894-95.
- ANNA PEARL MACVAY, . . . . . *Greek, Latin, and English*.  
Athens, O. A.B., Ohio State University, 1892. Principal of High School, Ashtabula, O., 1892-95.
- ALICE ANN MENDENHALL, . . . . . *Biblical Languages and Literature*.  
Bloomington, Ind. A.B., Earlham College, 1890. Teacher of Latin and Mathematics in the Bloomington Academy, 1890-94; Graduate Student in Semitic Languages and New Testament Greek, University of Chicago, 1894-95; Foundation Scholar, Bryn Mawr College, 1895-96.
- ELLA R. NAYLOR, . . . . . *Biology*.  
New Sharon, Ia. S.B., Penn College, 1895. Holder of Penn Graduate Scholarship, Bryn Mawr College, 1895-96.
- NELLIE NEILSON, . . . . . *History and English*.  
Philadelphia, Pa. A.B., Bryn Mawr College, 1893, and A.M., 1894. Graduate Student in English and History, Bryn Mawr College, 1893-94; Fellow in History, Bryn Mawr College, 1894-95; Holder of the American Fellowship of the Association of Collegiate Alumnae, 1895-96.
- HENRIETTA R. PALMER, . . . . . *English*.  
Providence, R. I. School of Library Economy, Columbia College, 1887-89; Acting Librarian, Bryn Mawr College, 1890-91; A.B., Bryn Mawr College, 1893. Associate Librarian, Bryn Mawr College, 1893-95, and Librarian, 1895-96.
- HELEN SLEEPER PEARSON, . . . . . *Mathematics*.  
Boston, Mass. A.B., Smith College, 1881, and A.M., 1883. Graduate Student in Mathematics, Bryn Mawr College, 1891-95.
- FLORENCE PEEBLES, . . . . . *Graduate Scholar in Biology*.  
Lutherville, Md. A.B., The Woman's College of Baltimore, 1895.
- AGNES GRAY PRATT, . . . . . *Biology*.  
Bryn Mawr, Pa. A.B. Certificate, Harvard Annex (Radcliffe College), 1893. Student in Zoology and Botany, Radcliffe College, and Student in Chemistry, Massachusetts Institute of Technology, 1893-94.
- VIRGINIA RAGSDALE, . . . . . *Mathematics*.  
Jamestown, N. C. B.S., Guilford College, 1892. Graduate Student in Mathematics, Bryn Mawr College, 1892-95.
- ANNA EATON RHODES, . . . . . *Greek and Latin*.  
Clyde, O. A.B., Baldwin University, 1893. Instructor in Greek and Latin, Baldwin University, 1893-95.
- INEZ L. RIGGS, . . . *Graduate Scholar in German and Teutonic Philology*.  
Columbia, Mo. L.B., University of the State of Missouri, 1894, and L.M., 1895.
- LILIAN VAUGHAN SAMPSON, . . . . . *Biology*.  
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Holder of the Bryn Mawr

- European Fellowship, 1891-92; Graduate Student in Biology, Bryn Mawr College, 1891-92, 1893-95; Student in Biology, University of Zürich, 1892-93.
- ELIZABETH B. SMEDLEY, . . . . . *Latin and German.*  
Malvern, Pa. A.B., Swarthmore College, 1887. Teacher in Friends' School, West Chester, Pa., 1889-90.
- BESSIE STEENBERG, . . . . . *English and History.*  
Chicago, Ill. L.B., University of Wisconsin, 1895.
- SUSAN ADELAIDE STERLING, . . . . . *German.*  
Madison, Wis. L.B., University of Wisconsin, 1879. Graduate Student in Latin, Wellesley College, 1880-81; Instructor in English, Ferry Hall Seminary, Lake Forest, Ill., 1881-83, and Instructor in German and French, 1885-86; Studied in Germany, 1883-84; Instructor in German, University of Wisconsin, 1886-95.
- CAROLINE TAYLOR STEWART, . . *Graduate Scholar in German and French.*  
Naguanee, Mich. A.B., University of Kansas, 1891; A.M., University of Michigan, 1895.
- HELEN WHITTALL THOMAS, . . . . . *Latin and English.*  
Baltimore, Md. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1893. Student in Greek and English, University of Leipsic, 1894; Sorbonne and Collège de France, and University of Leipsic, 1894-95; Reader in English, Bryn Mawr College, 1895-96.
- WINIFRED WARREN, . . . . . *Greek and Latin.*  
Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894. Fellow in Latin, Bryn Mawr College, 1893-94, and Fellow by Courtesy, 1894-96.
- EMMA STANSBURY WINES, . . . . . *Graduate Scholar in Philosophy.*  
Springfield, Ill. Wellesley College, 1889-90; A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1894. Teacher of English and History in the Walton School, Philadelphia, 1894-95.

## FORMER FELLOWS.

The Bryn Mawr European Fellowship was established by the Trustees in 1885, and has been held in successive years by the following graduates of Bryn Mawr College:

- EMILY GREENE BALCH, . . . . . *Bryn Mawr European Fellow, 1889-90.*  
Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Student in Political Science, Conservatoire des Arts et des Métiers, Paris, and under the direction of Prof. Emile Levasseur, 1890-91; University of Chicago, 1895; University of Berlin, 1895-96.
- KATHARINE MORRIS SHIPLEY, . . . *Bryn Mawr European Fellow, 1890-91.*  
Cincinnati, O. A.B., Bryn Mawr College, 1890. Student in Latin and English, University of Leipsic, 1890-91; Sorbonne and Collège de France, 1891-92; May term, Newnham College, University of Cambridge, England, 1892; The Misses Shipley's School, Bryn Mawr, Pa., 1894-96.
- LILIAN VAUGHAN SAMPSON, . . . . *Bryn Mawr European Fellow, 1891-92.*  
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Graduate Student in Biology, Bryn Mawr College, 1891-92, and 1893-96; Student in Biology, University of Zürich, 1892-93.
- ANNIE CROSBY EMERY, . . . . . *Bryn Mawr European Fellow, 1892-93.*  
Elsworth, Me. A.B., Bryn Mawr College, 1892. Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93; Student in Greek and Latin, University of Leipsic, 1893-94; Secretary to the President and Graduate Student in Greek and Latin, Bryn Mawr College, Second Semester, 1894-95, and 1895-96.
- LOUISE SIEFFIELD BROWNELL, . . *Bryn Mawr European Fellow, 1893-94.*  
New York City. A.B., Bryn Mawr College, 1893. Student in Greek and English, University of Oxford, England, and University of Leipsic, 1893-94; Graduate Student in Greek, Columbia College, 1894-95; Graduate Student in English, Columbia College, 1895-96.

MARY BIDWELL BREED, . . . . . *Bryn Mawr European Fellow*, 1894-95.  
Pittsburg, Pa. Graduate, Pennsylvania College for Women, 1889; A.B., Bryn Mawr College, 1894, and A.M., 1895. Graduate Student in Chemistry, Bryn Mawr College, 1894-95; Student in Chemistry, University of Heidelberg, 1895-96.

The Mary E. Garrett European Fellowship was established in 1894 by Miss Garrett, of Baltimore, and was awarded for the first time in the year 1894-95:

ISABEL MADDISON, . . . . . *Mary E. Garrett European Fellow*, 1894-95.  
Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93; B.Sc., University of London, Mathematical Honors, 1893; Fellow in Mathematics, Bryn Mawr College, 1893-94; Student in Mathematics, University of Göttingen, 1894-95; Secretary to the President, Bryn Mawr College, 1895-96.

A fellowship in Greek was established by the Trustees in 1885, and has been held in successive years by the following students :

KITTY AUGUSTA GAGE, . . . . . 1885-86.  
Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Latin and Greek in the State Normal School, New Paltz, New York, 1893-96.

SARAH E. SATTERTHWAITE LESLIE,\* . . . . . 1886-87.  
Marine City, Michigan. A.B., University of Michigan, 1886.

HELEN LOUISA LOVELL, . . . . . 1887-88.  
Flint, Michigan. A.B., University of Michigan, 1887. Graduate Student, University of Michigan, 1888-89; Teacher of Latin and History in the Girls' Classical School, Indianapolis, Ind., 1889-90; Associate in Greek and Latin, Woman's College, Baltimore, Md., 1890-91, and Associate Professor, 1891-93; Acting Professor of Greek and Latin, Earlham College, 1893-94; Graduate Student, Chicago University, 1894-95.

KATE MAY EDWARDS, . . . . . 1888-89.  
Ithaca, N. Y. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College, 1889-93, and Associate Professor, 1894-96; Graduate Student, Cornell University, 1893-94, and Ph.D., 1895.

SUSAN BRALEY FRANKLIN, . . . . . 1889-90.  
Newport, R. I. A.B., Bryn Mawr College, 1889, and Ph.D., 1895. Graduate Student, Bryn Mawr College, 1890-92; Fellow by Courtesy in Greek, 1891-92; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in Greek, Bryn Mawr College, 1892-93; Instructor in Latin, Vassar College, 1893-96.

ELIZABETH HARRIS,† . . . . . 1890-91.  
Germantown, Pa. A.B., Bryn Mawr College, 1890, and A.M., 1891. Teacher of Greek and Latin in the Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and Latin at Miss Florence Baldwin's School, Bryn Mawr, Pa., 1892-96.

FLORENCE V. KEYS, . . . . . 1891-92.  
Toronto, Canada. A.B., University of Toronto, 1891. Fellow in English, Bryn Mawr College, 1892-93; Reader in English, Bryn Mawr College, 1893-96; Examiner in English in the University of Toronto, 1894-95.

WILMER CAVE FRANCE, . . . . . 1892-93.  
Tysley, Worcestershire, England. Mason's College, Birmingham, England, 1885-87; Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892. Fellow in Latin, University of Chicago, 1893-94; Fellow in Greek, University of Chicago, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96.

ELIZABETH MARY FAIRCLOUGH, . . . . . 1893-94.  
Hamilton, Ont. A.B., McGill University, 1893.

\* Mrs. Francis Alexander Leslie, 1890.

† Mrs. Edward H. Keiser, 1896.



ANNIE GOODE PASCHALL,\* . . . . . 1894-95.  
Atlanta, Ga. A.B., Vanderbilt University, 1894.

A fellowship in Latin was established by the Trustees in 1892, and has been held in successive years by the following students :

ESTHER B. VAN DEMAN, . . . . . 1892-93.  
Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892. Instructor in Latin, Wellesley College, 1893-95; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., 1895-96.

WINIFRED WARREN, . . . . . 1893-94.  
Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894. Fellow by Courtesy, and Graduate Student in Greek and Latin, Bryn Mawr College, 1894-96.

EDITH HAMILTON, . . . . . 1894-95.  
Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894. Holder of the Mary E. Garrett European Fellowship, and Student in Greek and Latin, University of Leipsic, 1895-96.

A fellowship in English was established by the Trustees in 1885, and has been held in successive years by the following students :

MARY GWINN, . . . . . 1885-87.  
Baltimore, Md. University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and Collège de France, 1883. Graduate Student in English, Bryn Mawr College, 1887-88; Ph.D., Bryn Mawr College, 1888; Associate in English, Bryn Mawr College, 1888-93; Associate Professor of English, Bryn Mawr College, 1893-96.

GERTRUDE H. MASON, . . . . . 1887-88.  
Petaluma, Cal. Ph.B., University of Michigan, 1876, and Ph.M., 1888. Vice-Principal of Petaluma High School, 1893-94; Teacher of English in Petaluma High School, 1893-95; Head of the English Department, San Diego High School, Cal., 1895-96.

IDA WOOD, . . . . . 1888-89.  
Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889; Ph.D., Bryn Mawr College, 1891. Graduate Student in English, Bryn Mawr College, 1887-88, 1889-90; Fellow by Courtesy in English, Bryn Mawr College, 1890-91; Secretary of the Woman's Department of the University of Pennsylvania, 1892-93; Secretary of the Bryn Mawr School, Baltimore, Md., 1894-96.

MABEL PARKER CLARK HUDDLESTON,† . . . . . 1889-90.  
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College, and Graduate Student in English and French, 1890-93; Graduate Student in English and French, Columbia College, 1893-94.

KATHARINE MERRILL, . . . . . 1890-91.  
Abilene, Kansas. A.B., Kansas State University, 1889. Graduate Student in English, Bryn Mawr College, 1889-90; Harvard Annex, 1891-92; Assistant Professor of English Language and Literature, University of Illinois, 1892-95.

MARGUERITE SWEET, . . . . . 1891-92.  
Albany, N. Y. A.B., Vassar College, 1887; Ph.D., Bryn Mawr College, 1892. Graduate Student in Teutonic Philology and English, Bryn Mawr College, 1889-90, and Graduate Scholar, 1890-91; Instructor in English, Vassar College, 1892-96.

FLORENCE V. KEYS, . . . . . 1892-93.  
Toronto, Canada. A.B., University of Toronto, 1891. Fellow in Greek, Bryn Mawr College, 1891-92; Reader in English, Bryn Mawr College, 1893-96; Examiner in English in the University of Toronto, 1894-95.

HELEN BARTLETT, . . . . . 1893-94.  
Peoria, Ill. Newnham College, University of Cambridge, England, 1889; Studied in Berlin,

\* Deceased, 1895.

† Mrs. John Henry Huddleston, 1894.

1882-84, and 1890; A.B., Bryn Mawr College, 1892, and A.M., 1893. Graduate Student in English, Bryn Mawr College, 1892-93; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in English and German, Bryn Mawr College, 1894-95.

LAURA LUCINDA JONES, . . . . . 1894-95.  
Toronto, Ont. A.B., University of Toronto, 1891.

A fellowship in Teutonic Languages was established by the Trustees in 1893, and has been held in successive years by the following students:

HELEN WINNIFRED SHUTE, . . . . . 1893-94.  
Exeter, N. H. A.B., Smith College, 1887. Assistant in German, Smith College, 1887-93; Fellow by Courtesy in German and Teutonic Philology, Bryn Mawr College, 1894-95; Student in Teutonic Philology, University of Göttingen, 1895-96.

MINNA STEELE SMITH, . . . . . 1894-95.  
Edinburgh, Scotland. Newnham College, University of Cambridge, England, 1890-94; Medieval and Modern Languages Tripos, First Class, 1893. Fellow in German and Teutonic Philology, Bryn Mawr College, 1895-96.

A fellowship in Romance Languages was established by the Trustees in 1893, and has been held in successive years by the following students:

THÉRÈSE F. COLIN, . . . . . 1893-94.  
Paris, France. Diplômée et agrégée, Collège de Neuchâtel, 1875; A.M., Leland Stanford, Jr. University, 1893. Muséum d'Histoire Naturelle, Paris, 1883-85; University of the City of New York, 1887-88; Reader in Romance Languages, and Graduate Student in Romance Philology, Bryn Mawr College, 1894-96; Student in Romance Philology and Literature at the Sorbonne, Collège de France, École des Hautes Etudes, École des Chartes, 1895.

ESTHER TONTANT DE BEAUREGARD, . . . . . 1894-95.  
New Orleans, La. A.B., University of Toronto, 1894.

A fellowship in History and Politics was established by the Trustees in 1885, and has been held in successive years by the following students:

JANE M. BANCROFT ROBINSON,\* . . . . . 1885-86.  
West Stockbridge, Mass. Ph.B., Syracuse University, 1877; Ph.M., 1880, and Ph.D., 1884. Professor of French Language and Literature, Northwestern University, 1877-85; University of Zürich, 1886-87; Sorbonne and Collège de France, 1888.

LUCY MAYNARD SALMON, . . . . . 1886-87.  
Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883-86; Associate Professor of History, Vassar College, 1887-89; Professor of History, Vassar College, 1889-95.

CORA AGNES BENNESON, . . . . . 1887-88.  
Cambridge, Mass. A.B., University of Michigan, 1878; LL.B., 1880, and A.M., 1883. Attorney and Counsellor-at-Law, Cambridge, Mass., 1894-96.

HANNAH ROBIE SEWALL, . . . . . 1888-89.  
St. Paul, Minn. A.B., University of Minnesota, 1884, and A.M., 1887. Fellow by Courtesy in History, Bryn Mawr College, 1889-90; Assistant in Political Science, University of Minnesota, 1893-95.

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\* Mrs. George O. Robinson, 1891.

- ELEANOR LOUISA LORD, . . . . . 1889-90.  
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890. Instructor in History, Smith College, 1890-94; Student in History, Newnham College, University of Cambridge, England, 1894-95; Fellow in History, Bryn Mawr College, 1895-96.
- AGNES MATHILDE WERGELAND, . . . . . 1890-91.  
Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, München, 1884-86; University of Zürich, 1888-90; Ph.D., University of Zürich, 1890. Reader in History of Art, Bryn Mawr College, 1891-93.
- CAROLINE MILES HILL,\* . . . . . 1891-92.  
Carthage, Ind. A.B., Earlham College, 1887. Teacher of Latin in Friends' Academy, Bloomington, Ind., 1888-89; Michigan University, 1889-91, and A.M., 1890. Instructor in History and Philosophy, Mt. Holyoke College, 1892-93; Tutor in History, Wellesley College, 1893-94; Instructor in Psychology, Wellesley College, 1894-95.
- JANE BOWNE HAINES, . . . . . 1892-93.  
Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92, 1893-94; Associate Librarian, Bryn Mawr College, 1895-96.
- JANE LOUISE BROWNELL, . . . . . 1893-94.  
Bristol, Conn. A.B., Bryn Mawr College, 1893, and A.M., 1894. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1894-96.
- NELLIE NEILSON, . . . . . 1894-95.  
Philadelphia, Pa. A.B., Bryn Mawr College, 1893, and A.M., 1894. Graduate Student in English and History, Bryn Mawr College, 1893-94; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in English and History, Bryn Mawr College, 1895-96.
- A fellowship in Mathematics was established by the Trustees in 1885, and has been held in successive years by the following students :
- ELLA C. WILLIAMS, . . . . . 1885-86.  
Watkins, N. Y. A.M., University of Michigan, 1880. Studied under Professor Schwartz of Göttingen, nineteen months, 1883-85; Newnham College, University of Cambridge, England, spring term, 1884; Teacher of Mathematics in Miss Moses' School, New York City, 1886-87; Teacher of Mathematics in the State Normal School, Plymouth, N. H., 1887-89.
- ANNIE A. STEWART, . . . . . 1886-87.  
West Bay, Nova Scotia. Studied in University College, London, 1880-82; B.Sc., Dalhousie College, 1886. Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Philadelphia, 1887-93; Student in Mathematics and Physics, Newnham College, University of Cambridge, England, 1893-95; Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Philadelphia, 1895-96.
- ELIZABETH MILLER BLANCHARD, . . . . . 1889-90.  
Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1891-92; Tutor in Mathematics, Latin, and History in the Misses Shipley's School, Bryn Mawr, Pa., 1894-96.
- RUTH GENTRY, . . . . . 1890-91.  
Stilesville, Ind. Ph.B., University of Michigan, 1890. Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics, University of Berlin, 1891-92; Fellow in Mathematics, Bryn Mawr College, 1892-93, and Fellow by Courtesy, 1893-94; Instructor in Mathematics, Vassar College, 1894-96.
- MARY FRANCES WINSTON, . . . . . 1891-92.  
Forreston, Ill. A.B., University of Wisconsin, 1889. Teacher of Mathematics, Downer College, Wisconsin, 1889-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, 1893-94; Student of Mathematics, University of Göttingen, 1893-96; Ph.D., University of Göttingen, 1896.
- RUTH GENTRY, . . . . . 1892-93.  
Stilesville, Ind. Ph.B., University of Michigan, 1890. Fellow in Mathematics, Bryn Mawr College, 1890-91; Holder of the European Fellowship of the Association of Collegiate Alum-

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\* Mrs. William Hill, 1895.

nae, and Student in Mathematics, University of Berlin, 1891-92; Fellow by Courtesy, Bryn Mawr College, 1893-94; Instructor in Mathematics, Vassar College, 1894-96.

ISABEL MADDISON, . . . . . 1893-94.

Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; B.Sc., University of London, Mathematical Honors, 1893; Holder of the Mary E. Garrett European Fellowship, and Student in Mathematics, University of Göttingen, 1894-95; Secretary to the President, Bryn Mawr College, 1895-96.

FRANCES HARDCASTLE, . . . . . 1894-95.

London, England. Girton College, University of Cambridge, England, 1888-92; Mathematical Tripos, 1891; Part II., 1892. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Honorary Fellow in Mathematics, University of Chicago, 1893-94; Graduate Student in Mathematics, Girton College, University of Cambridge, 1895-96.

A fellowship in Chemistry was established by the Trustees in 1893, and has been held in successive years by the following students:

EMMA HARRIET PARKER, . . . . . 1893-94.

Charlestown, N. H. S.B., Smith College, 1887. Graduate Student in Chemistry, Bryn Mawr College, 1892-93; Mary E. Garrett Scholar in Chemistry, Bryn Mawr College, 1894-95; Instructor in Chemistry, Wellesley College, 1895-96.

AMY CORDOVA ROCK, . . . . . 1894-95.

Washington, D. C. A.B., Bryn Mawr College, 1893. Graduate Student in Chemistry, Bryn Mawr College, 1893-94; Student in Chemistry, University of Heidelberg, 1895-96.

A fellowship in Biology was established by the Trustees in 1885, and has been held in successive years by the following students:

EFFIE A. SOUTHWORTH, . . . . . 1885-86.

North Collins, N. Y. S.B., University of Michigan, 1885. Student-Assistant in the Biological Laboratory, Bryn Mawr College, 1886-87; Assistant Mycologist of the United States Agricultural Bureau, Washington, D. C., 1887-92; Assistant in Botany, Barnard College, 1892-95.

MARCELLA I. O'GRADY, . . . . . 1887-89.

Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator in Biology, Bryn Mawr College, 1887-89; Associate Professor of Biology, Vassar College, 1889-93; Professor of Biology, Vassar College, 1893-96.

HARRIET RANDOLPH, . . . . . 1889-90.

Philadelphia, Pa. A.B., Bryn Mawr College, 1889. Ph.D., University of Zürich, 1892; University of Zürich, 1890-92; Demonstrator in Biology, Bryn Mawr College, 1892-96, and Reader in Botany, Bryn Mawr College, 1893-96.

JEAN KIRK HOWELL, . . . . . 1891-92.

Painted Post, N. Y. Ph.B., Cornell University, 1888, and M.S., 1890. Assistant in Botany, Barnard College, 1892-96.

IDA H. HYDE, . . . . . 1892-93.

Chicago, Ill. S.B., Cornell University, 1891. Student-Assistant and Graduate Student in Biology, Bryn Mawr College, 1891-92; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Biology, University of Strasburg, 1893-94; Holder of the Phebe Hunt Fellowship of the Association of Collegiate Alumnae, and Student in Biology, University of Heidelberg, 1894-96; Ph.D., University of Heidelberg, 1896.

ELIZABETH NICHOLS, . . . . . 1893-94.

Philadelphia, Pa. A.B., Bryn Mawr College, 1893. Graduate Student in Biology, Bryn Mawr College, 1894-95; Teacher of Science in the Girls' High School, Philadelphia, 1895-96.

ESTHER F. BYRNES, . . . . . 1894-95.

Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Demonstrator in the Biological Laboratory, Vassar College, 1891-93; Mary E. Garrett Scholar in Biology, Bryn Mawr College, 1893-94; Graduate Student in Biology, Bryn Mawr College, 1895-96.



## BRYN MAWR COLLEGE.

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### GRADUATE COURSES OF INSTRUCTION.

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BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, a physician, merchant, and member of the Society of Friends, who purposed founding an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." In the spring of 1885 the first program was issued, and the College opened for instruction in the following autumn with forty-four students.

Three classes of persons are admitted to the lectures and class-work of the College:—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately.

#### *Regulations of the Graduate Department.*

In the opinion of the Trustees of Bryn Mawr College a college should differ from a university not in the extent or thoroughness of the instruction given in the subjects which it professes to teach, but in the range of instruction and in the number of its schools or faculties; and it has from the beginning been their policy to organise no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years leads to the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one year and offered as one of the minor or secondary subjects.

*Admission.*

Graduate students must have presented a diploma from some college of acknowledged standing.\* They may pursue any courses offered by the College for which their previous training has fitted them; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses offered by the College. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors, and their needs will be considered in the arrangement of new courses of lectures. They may enroll themselves either as special students or as candidates for a second degree; in either case they must consult with the President in regard to the courses they are to pursue, and must be duly registered for those courses at the President's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiency in this respect.

*Fellowships and Scholarships.*

The most distinguished place among graduate students is held by the Fellows, who must reside in the college during the academic year. Eleven resident Fellowships, of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic Philology, one in Romance Languages, one in History or Political Science, one in Philosophy, one in Mathematics, one in Physics, one in Chemistry, and one in Biology. These Fellowships, which do not exempt the holder from the usual charge for tuition, board and room-rent, are intended as an honor and are awarded in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing.

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\* The certificates of the Women's Colleges of the English Universities of Oxford and Cambridge, will be regarded as equivalent to a first degree,—i.e., to the degree of Bachelor of Arts.

No one may compete who has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate who has studied longest or whose work affords the best promise of future success. The holder of a Fellowship is expected to show, by the presentation of a thesis or in some other manner that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those who continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Five Graduate Scholarships, of the value of two hundred dollars each, may, on the recommendation of the head of the department in question, be awarded to the candidates next in merit to the successful candidates for the Fellowships; they are open also to all graduates of Bryn Mawr College or of other colleges of good standing.

Two European Fellowships, founded by Miss Garrett of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, will be awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary E. Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr College. These Fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the College.

Applications for the resident Fellowships or Scholarships should be made as early as possible, and must be made not later than the fifteenth of April preceding the year for which the Fellowship or Scholarship is desired. Blank forms of application will be forwarded to the applicants. A definite answer will be given within two weeks from the latest date set for receiving applications.

*Studies Leading to a Second Degree.*

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degree of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

*The Degree of Doctor of Philosophy and Master of Arts.*

The degree of Doctor of Philosophy may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent collegiate studies.

The candidate must have pursued for three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written or a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Graduate Committee, by whom, after due consultation with the heads of the departments concerned, it will be submitted to the Academic Council.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and



the degree of Doctor of Philosophy will be given to no one who cannot read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candidate before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

### *The Degree of Master of Arts.*

A separate degree of Master of Arts will be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to ten hours weekly, or graduate courses equivalent to ten hours weekly of undergraduate work. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with the grade of credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

### *Expenses.*

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, special students, and hearers, and is payable in advance. An additional charge of fifteen dollars a year is made for materials in every laboratory course of five hours weekly throughout the year.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

### *Residence.*

Residence in the college buildings is optional. Of the students in daily attendance at the lectures and class work of the college,

some have always lived in Philadelphia, or in the neighborhood of Bryn Mawr; others have resided in the College for five days of the week. The expense of board and residence in the college halls is two hundred and seventy-five dollars or three hundred dollars, according to the room or rooms occupied by the student. There are also a few rooms of exceptional size in which the expense of board and residence is three hundred and twenty-five dollars. Of this sum one hundred and fifty dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-rent, and is payable yearly in advance. Room rent includes all expense of service, heating and light, except open fires and laundry work.

The health of the students is under the charge of Dr. Mary Sherwood, a physician practising in Baltimore, who visits the College every week, and can then be consulted by any student free of charge.

Plans of Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall, East and West, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls (except Pembroke which has a common dining-room and kitchen for the two wings) has its separate kitchen and dining hall, provides accommodations for about sixty students, and is under the charge of a resident Mistress. In each hall of residence a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings or corridors. In Denbigh Hall a large suite of rooms is reserved for the use of the Graduate Club, organised by the graduate students in 1894, and composed of the entire body of resident graduates. Application for rooms should be made as early as possible. Since the demand for college rooms is very great, and every room unnecessarily reserved may prevent some other student from entering the College, a deposit of fifteen dollars, which will be deducted from the first college bill, is required before a room is assigned.

A deposit of fifteen dollars must also be made by each student in residence in order to ensure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year.

All students reserving rooms who have not given notice of withdrawal to the Secretary of the College before September first of the academic year for which the room is reserved, will be responsible for the rent of the room for the entire academic year.

The rooms are completely furnished. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge (\$18 for one dozen pieces a week) is made for washing (see the descriptions of Merion Hall, Radnor Hall, Denbigh Hall and Pembroke Hall) when students prefer to have their washing done at the college laundry. Students that remain at the College during the winter and spring vacations will be charged seven dollars, or nine dollars weekly, according to the rooms occupied. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

The charge for tuition is accordingly \$100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is \$125, \$150, (or in special cases, \$175) a year, payable in advance.

The charge for board is \$150 a year; one-half payable in advance.

The charges for tuition and room-rent for the year, and for board for the first semester, must be paid at the Bursar's Office before November 1st; the charge for board for the second semester must be paid before March 1st.

The charge for board, residence and tuition is, therefore, \$375, \$400 (or in special cases \$425) a year; the additional charges are \$15 for every laboratory course of five hours weekly.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It will be applied to the assistance of those students only who have attended courses in the College for at least one year. The Fund is managed by a committee consisting of the President of the College and representatives of the Association of Bryn Mawr College Alumnæ. The committee reports yearly to the Board of Trustees and to the Alumnæ Association. The committee consists of the following members: President M. Carey Thomas; Miss Mary McMurtrie, Chairman, Chestnut Hill, Philadelphia; Miss Martha G. Thomas, Secretary and Treasurer, Whitford, Pa.; Mrs. William H. Collins, Haverford, Pa.; Mrs. John McA. Harris, 5305 Main Street, Germantown, Philadelphia; Mrs. John Westcott, Princeton, N. J. Contributions may be sent to any member of the committee.

### *Libraries.*

The fact that the College is at a distance of only ten miles from Philadelphia, which may be reached by trains, running every half

hour, in from twenty to thirty minutes, enables the student to make use of all the resources of the libraries of Philadelphia, as well as those of the College proper.

The College Library, accordingly, will remain as far as possible a library for special study. There are at present on its shelves twenty-three thousand seven hundred and fifty-seven bound volumes, and seven thousand doctors' dissertations and pamphlets, including the classical library of the late Professor Sauppe, of Göttingen, which was presented to the College in 1894. The library of the late Professor Amiaud, of Paris, was acquired in 1892, and at present forms part of the library of the College. It is a good working library for the student in every department of Semitic study. A more detailed description of these two collections may be found on page 78 of the general program and on page 40 of the graduate program.

The sum of three thousand dollars is expended yearly for books, under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, over four thousand dollars has been presented to the library during the past six years for expenditure in special departments. One hundred and ninety scientific, literary and philological periodicals and reviews in the English, German, French, Italian, Norse and Swedish languages, are taken by the library as follows:

Academy; Acta Mathematica; Allgemeines Statistisches Archiv; American Chemical Journal; American Dialect Society Publications; American Economic Association Publications; American Friend; American Historical Review; American Journal of Archaeology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology; American Journal of Science; American Naturalist; Anatomischer Anzeiger; Anglia; Annalen der Chemie; Annalen der Physik und Chemie; Annales de Chimie et Physique; Annals of the American Academy of Political and Social Science; Annales de l'École Normale Supérieure; Annali di Matematica; Archiv für Anatomie und Physiologie; Archiv für die gesammte Physiologie; Archivio glottologico italiano; Archiv für latein. Lexicographie; Archiv für mikroskopische Anatomie; Archiv für neueren Sprachen und Litteraturen; Arkiv för nordisk Filologi; Athenæum; Atlantic Monthly; Atti della Accademia della scienze di Torino; Babylonian and Oriental Record; Beiblätter zu den Annalen der Physik und Chemie; Beiträge zur Geschichte der deutschen Sprache und Litteratur; Beiträge zur Kunde der indogermanischen Sprachen; Berliner philologische Wochenschrift; Biblical World; Bibliotheca Mathematica; Bibliotheca Philologica Classica; Bibliotheca Sacra; Biologisches Centralblatt; Botanisches Centralblatt; Bulletin of the American Mathematical Society; Bulletin de Correspondance Hellénique; Bulletin de la Société Mathématique de France; Bulletin of Torrey Botanical Club; Centralblatt für Physiologie; Century Magazine; Chaucer Society Publications; Chemical News; Classical Review; Comptes Rendus des Académies des Sciences; Contemporary Review; Deutsche Litteraturzeitung; Deutsche Zeitschrift für Geschichtswissenschaft; Dial; Dialect Notes; Early English Text Society Publications; Economic Journal; Economic Review; Electrician; Englische Studien; English Historical Review; Euphorion; Expositor; Expository Times; Fortnightly Review; Forum; Friend;



Giornale di Battaglini; Goethe-Gesellschaft Schriften; Göttingische gelehrte Anzeigen; Groeber, Grundriss der romanische Philologie; Harper's Magazine; Hartford Seminary Record; Hebraica; Hermes; Historische Zeitschrift; Independent; Indian Antiquary; Indogermanische Forschungen; International Journal of Ethics; Jahrbuch der deutschen-Shakespeare Gesellschaft; Jahrbuch für Gesetzgebung; Jahrbuch über die Fortschritte der Mathematik; Jahresbericht der germanischen Philologie; Jahresbericht über die Alterthumswissenschaft; Jahresbericht über die Fortschritte der Chemie; Johns Hopkins University Circulars; Johns Hopkins University Studies; Journal of Biblical Literature; Journal de Mathématiques; Journal für die reine u. angewandte Mathematik; Journal für praktische Chemie; Journal of Morphology; Journal of the Chemical Society; Journal of the Microscopical Society; Journal of Philology; Journal of Physiology; Journal of the Royal Statistical Society; Journal of the Society for Psychical Research; Kryptogamen Flora; Leipziger Studien; Library Journal; Literarisches Centralblatt; Literary Digest; Literaturblatt für germ. u. rom. Philologie; Mathematische Annalen; Messenger of Mathematics; Mind; Mittheilungen des archäologischen Instituts; Mittheilungen der englischen Sprache und Litteratur; Mittheilungen aus der zoologischen Station zu Neapel; Mnemosyne; Modern Language Notes; Monatshefte für Chemie; Monist; Nachrichten von der königlichen Gesellschaft der Wissenschaften; Nation; Nature Notes; Nature; Neue Jahrbücher für Philologie u. Pädagogik; Neues Jahrbuch für Mineralogie, Geologie und Paläontologie; Nineteenth Century; North American Review; Outlook; Pedagogical Seminary; Pennsylvania Magazine; Philologische Untersuchungen; Philologus; Philosophical Magazine; Philosophical Review; Philosophische Studien; Poet Lore; Political Science Quarterly; Popular Science Monthly; Proceedings of the Academy of Natural Sciences; Proceedings of London Mathematical Society; Proceedings of the Royal Society; Proceedings of the Society for Psychical Research; Psychological Review; Publications of the American Statistical Association; Publications of the Modern Language Association; Quarterly Journal of Economics; Quarterly Journal of Mathematics; Quarterly Journal of Microscopical Science; Quarterly Review; Quellen und Forschungen; Rendiconti del circolo matematico di Palermo; Review of Reviews; Revue Bleue; Revue Celtique; Revue Critique; Revue Historique; Revue Philosophique; Rheinisches Museum für Philologie; Rivista di filologia; Romania; Romanische Forschungen; Science; Scottish Text Society Publications; Scribner's Magazine; Spectator; Studies in History, Economics, and Public Laws; The Thinker; Transactions of American Philological Association; University of Pennsylvania Publications, Political Economy and Public Law Series; Vierteljahresschrift für Staats u. Volkswirtschaft; Westminster Review; Wharton School Studies; Yale Review; Wochenschrift für klassische Philologie; Zeitschrift für deutsches Alterthum; Zeitschrift für deutsche Philologie; Zeitschrift für physikalische Chemie; Zeitschrift für anorganische Chemie; Zeitschrift für Assyriologie; Zeitschrift für das österreichischen Gymnasien; Zeitschrift für französische Sprache; Zeitschrift für Gymnasialwesen; Zeitschrift für Mathematik u. Physik; Zeitschrift für Psychologie; Zeitschrift für Social und Wirthschaftsgeschichte; Zeitschrift für wissenschaftliche Zoölogie; Zeitschrift für romanische Philologie; Zeitschrift für vergleichende Sprachforschung; Zoölogischer Anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 188,000 volumes, and is at all times open to the students for consultation. Private subscription, for eight volumes, \$12 a year, or \$10 for nine months.

The *Mercantile Library*, which contains 175,000 volumes. Private subscriptions, \$6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 40,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains 135,000 volumes. The custodians of this library have always shown great courtesy in placing rare volumes at the disposal of the College.

### Sanskrit and Comparative Philology.

The instruction in Sanskrit and comparative philology is under the direction of Dr. Hermann Collitz, Associate Professor of Comparative Philology and German, and Mr. Paul Elmer More, Associate in Sanskrit and Classical Literature.

#### GRADUATE COURSES.

Dr. Collitz gave in 1895-96 the following graduate course, and will repeat it in 1896-97 :

Lectures on Comparative Philology, and Philological Seminary,

*Once weekly throughout the year.*

Students entering this course are expected to be familiar with Greek, Latin, and German. A short preliminary course in Sanskrit will also be of great aid to the student. The lectures on comparative philology will treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student will be introduced to the latest theories and discoveries in Aryan phonetics, and will be expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method will be pursued during the investigation of the history of forms; and in the third part of the course the student will begin the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Mr. More gave in 1895-96 the following graduate course:

Elementary Sanskrit,

*Once weekly throughout the year.*

This course consists mainly of Sanskrit grammar, with selections from Lanman's Reader.

Mr. More will offer in 1896-97 the following graduate courses:

Advanced Sanskrit,

*Once weekly throughout the year.*

In this course selections from the Mahā Bhārata will be read.

Pāli,

*Once weekly throughout the year.*

This course will presuppose a knowledge of Sanskrit. Pāli is of especial interest to students of religions, since in it are preserved the sacred books of the Buddhists.

## Greek.

The instruction in Greek is under the direction of Dr. Herbert Weir Smyth, Professor of Greek; Dr. Mortimer Lamson Earle, Associate Professor of Greek and Latin; Mr. Paul Elmer More, Associate in Sanskrit and Classical Literature; Dr. George A. Barton, Associate Professor of Biblical Literature and Semitic Languages, and Mr. Richard Norton, Lecturer in the History of Art.

### GRADUATE COURSES.

The graduate courses in Greek are varied from year to year (Lyric Poets, Attic Tragedy, Historians, and Orators), in order that they may be pursued by a student for several successive years. Three of these courses are required of students that offer Greek as a major subject in the examination for the degree of Doctor of Philosophy; two are required when Greek is the only minor subject offered, and one when there are two minors. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department, and reports of work thus read will from time to time be required of the students. The fifth hour of graduate Greek is the course in comparative philology conducted by Dr. Collitz. Students taking the graduate course in Greek are expected to elect also the one-hour course in comparative philology.

Dr. Smyth gave in 1895-96 the following graduate course, and will repeat it in 1896-97, unless the course in Attic Tragedy seems better adapted to the needs of the students:

#### Lyric Poetry,

*Four hours weekly throughout the year.*

The course in Lyric Poetry embraces a study of the melic poets in the third volume of Bergk's *Poetae Lyrici Graeci*, the fragments of Pindar, a critical history of the development of melic poetry in its various forms, and a detailed examination of the art and language of Alcæus and Sappho. The chief inscriptions of the Æolic dialect will be read, and lectures will also be given on lyric metres.

The course in Attic Tragedy consists of the reading of the entire works of Æschylus and the critical interpretation of a selected portion. One hour a week is set apart for seminary work on the text of a single play, two hours are devoted to translation and a running commentary upon the other tragedies, and to lectures upon various subjects connected with the drama (style, vocabulary, syntax, dialect, metres, etc.). The fourth hour (during the first semester only) is devoted to the study of Aristotle's *Poetics*. Each member of the class will write, during the year, one or more papers on special topics. Students taking this course are expected to provide themselves in advance with Paley's *Æschylus* (Bibliotheca Classica edition), Haigh's *Attic Theatre* (Macmillan & Co.), and Schmidt's *Rhythmic and Metric*, translated by Prof. White (Ginn & Co.).

Mr. Norton will give in 1896-97 the following graduate course:  
Classical Archæology (see page 46),

*Twice weekly throughout the year.*

POST-MAJOR COURSES.

Dr. Smyth gave in 1895-96 the following post-major courses, open to graduate students :

Lyric Poets,	<i>Twice weekly during the first semester.</i>
Pindar,	<i>Twice weekly during the second semester.</i>

Dr. Smyth will offer in 1896-97 the following post-major courses, open to graduate students :

Æschylus, <i>Agamemnon</i> ,	<i>Twice weekly during the first semester.</i>
Theocritus,	<i>Twice weekly during the second semester.</i>

Mr. More gave in 1895-96 the following post-major course, open to graduate students :

Plato, <i>Republic</i> ,	<i>Twice weekly throughout the year.</i>
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Mr. More will offer in 1896-97 the following post-major courses, open to graduate students :

Aristophanes, <i>Clouds</i> or <i>Frogs</i> ,	<i>Twice weekly during the first semester.</i>
Aristotle, <i>Nicomachean Ethics</i> ,	<i>Twice weekly during the second semester.</i>

Dr. Barton gave in 1895-96 the following post-major course, open to graduate students, and will repeat it in 1896-97 :

New Testament Greek,	<i>Twice weekly throughout the year.</i>
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This course presupposes a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour weekly during the first semester will be devoted to a careful study of the text of one of the Gospels, and the other hour to lectures on the history of the New Testament text, both in its written and its printed form, on the helps extant for emending it, and the method of using them. In the second semester the subject of study will be the *Epistles* of Paul. The students will be expected to read privately during the first semester the text of one of the Gospels that has not been read in class, and during the second, either the *Acts of the Apostles*, the *Apocalypse*, or the *Epistle to the Hebrews*.

Latin.

The instruction in Latin is under the direction of Dr. Gonzalez Lodge, Professor of Latin, Dr. Mortimer Lamson Earle, Associate Professor of Greek and Latin, and Mr. Paul Elmer More, Associate in Sanskrit and Classical Literature.

GRADUATE COURSES.

Graduate work in Latin is conducted according to the Seminary method. One department of Latin Literature or one Latin author is selected each year as a subject of study. All the best and most recent



editions, together with a large number of special treatises, dissertations, etc., are collected in the seminary library, and graduate students are encouraged to make themselves thoroughly acquainted with all the literature bearing upon the subject chosen. To this end the work is arranged along the following lines :

- a. historical and critical Lectures by the instructor.
- b. critical interpretation of selected passages from the principal authors, by the students.
- c. abstracts and analyses of important dissertations and special treatises, by the students.
- d. An original study by each member of the Latin Seminary of some subject connected with the work of the year.

The courses vary from year to year, so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for several successive years. Thus far the following courses have been arranged : Roman Satire, with especial attention to Horace and Juvenal ; Roman Drama, with especial attention to Plautus and Terence ; Roman Historiography, with especial attention to Livy and Tacitus ; Roman Epistolography, with especial attention to Cicero and Pliny.

A course of lectures on Latin Grammar and Syntax of one hour weekly for four years is similarly arranged, so that in successive years are discussed : (1) the forms, (2) the syntax of the noun, (3) the syntax of the verb, (4) the syntax of the subordinate sentence.

The one hour course in Comparative Philology (see page 28) forms the fifth hour of the graduate course in Latin.

Dr. Lodge gave in 1895-96 the following graduate courses:

Roman Drama,	<i>Three times weekly throughout the year.</i>
Latin Syntax, <i>The Verb</i> ,	<i>Once weekly throughout the year</i>

Dr. Lodge will offer in 1896-97 the following graduate courses :

Roman Epistolography,	<i>Three times weekly throughout the year.</i>
Lectures on Latin Grammar,	<i>Once weekly throughout the year.</i>

This course will take the place of the course in Inscriptions and Syntax of the *Moods and Tenses*, given in 1894-95. It will consist of a study of the Italian dialects, and of the historical development of the linguistic forms in Latin.

Dr. Lodge will offer in 1897-98 the following graduate courses:

Roman Satire,	<i>Three times weekly throughout the year.</i>
Latin Syntax, <i>The Noun</i> ,	<i>Once weekly throughout the year.</i>

#### POST-MAJOR COURSES.

Dr. Earle gave in 1895-96 the following post-major courses, open to graduate students :

Cicero, <i>De Oratore</i> , Book i,	<i>Twice weekly during the first semester.</i>
Cicero, <i>De Oratore</i> , Book ii,	<i>Twice weekly during the second semester.</i>
Martial,	<i>Once weekly during the first semester.</i>
Catullus,	<i>Once weekly during the second semester.</i>

Dr. Earle will offer in 1896-97 the following post-major courses, open to graduate students:

Cicero, <i>De Natura Deorum</i> ,	<i>Twice weekly during the first semester.</i>
Terence,	<i>Twice weekly during the second semester.</i>
Advanced Latin Composition,	<i>Once weekly throughout the year.</i>

#### MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Mary Gwinn, Dr. Hermann Collitz, Dr. Joseph A. Fontaine, Dr. James Douglas Bruce, Mr. Alfred Hodder, Dr. Max Blau, Miss Rose Chamberlin, Miss Abby Kirk, Miss Florence V. Keys, Dr. Frederic M. Page, Miss Lucy Martin Donnelly, Miss Helen Whitall Thomas.

#### English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary Gwinn, Associate Professor of English, Dr. James Douglas Bruce, Associate in English Philology, Mr. Alfred Hodder, Associate in English Literature, Miss Abby Kirk, Reader in English, Miss Florence V. Keys, Reader in English, Miss Lucy Martin Donnelly, Reader in English, and Miss Helen Whitall Thomas, Reader in English. It includes two years of lectures on literature and language required of every candidate for the first degree; two years of advanced English, which presuppose as much information as is contained in the required course, and are therefore largely graduate in character; and graduate courses in English literature, English philology and essay work.

#### GRADUATE COURSES.

There will be offered each year two distinct graduate courses in English, one in literature and one in language, and these courses will be so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in a three years' course of undergraduate lectures on Eng-

lish literature; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English Major.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least one course in essay work.

The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

Dr. Gwinn will offer in 1896-97 the following graduate course:

Seventeenth Century Prose Writers, *Twice weekly throughout the year.*

Dr. Gwinn will offer in 1897-98 the following course :

Eighteenth Century Prose Writers, *Twice weekly throughout the year.*

Mr. Hodder gave in 1895-96 and will repeat in 1896-97 the following courses:

The Elizabethan and Jacobean Drama, *Twice weekly throughout the year.*

The time required for reading in connection with the lectures makes this course the equivalent of five hours weekly. During the first semester the Mystery and Miracle Plays and the chief works of the pre-Shakespearean Drama are read privately by the class and discussed in detail in the lectures and conferences, different plays being assigned to different members of the class for report and discussion. In the second semester Shakespeare's histories, and seven or eight of his other plays, are read critically, and the remaining plays are studied privately by the members of the class. The chief plays of the other Elizabethan and Jacobean dramatists are read in connection with the different periods of Shakespeare.

The Development of the Modern English Novel,

*Three times weekly throughout the year.*

Dr. Bruce gave in 1895-96 the following courses :

Beowulf, *Twice weekly throughout the year.*

Andreas, *Twice weekly throughout the year.*

Dr. Bruce will offer in 1896-97 the following courses:

Middle English Phonology, *Twice weekly throughout the year.*

This course will consist of lectures on the history of English Sounds in the Middle English period, with reference to their development from the Anglo-Saxon, and will be supplemented by extensive reading of pre-Chaucerian texts.

Genesis and Exodus, *Twice weekly throughout the year.*

This course is primarily intended to give to students who have already some reading knowledge of Anglo-Saxon, a general acquaintance with representative pieces of Anglo-Saxon literature outside of *Beowulf*. It is accompanied by grammatical and metrical exercises.

Dr. Bruce conducts the English Seminary, the work of which has been arranged as follows :

English Seminary,

*Twice weekly throughout the year.*

In the year 1893-94 the work of the seminary was Anglo-Saxon Literature. The various branches of Anglo-Saxon Literature were discussed in the same order as in the third division of Wülker's *Grundriss*, and the most important and most recent literature in the form of dissertations and articles in scientific periodicals was assigned to members of the class for report and discussion. Lectures on subjects relating to particular works were also given from time to time.

In the year 1894-95 Selected Poems of the Exeter Book were studied in the seminary. The minor epic pieces were first considered with reference to the Teutonic saga-cycles with which they are connected. The criticism of the text of each poem was carefully considered, and subsequently the *Crist* and *Guthlac* were taken up. In connection with these poems, especial study was devoted to the syntax of Old English, and a series of lectures was given by the instructor. Practical exercises accompanied the lectures as in the case of the course on Phonology.

In the year 1895-96 the seminary dealt with the Middle English Romance literature. The four great cycles of Arthur, Troy, Alexander, and Charlemagne were taken up in the order named. Introductory lectures on each cycle with reference to its general European development were given by the instructor. Representative Middle English romances of each cycle were assigned to the students for investigation. Select romances not belonging to the great cycles were also studied.

In the year 1896-97 the subject will be Chaucer. The poems of Chaucer will be taken up in order—first the Canterbury Tales, and then the more important poems outside of this series. The work of the seminary will consist of reports by individual students, the literature of each subject being assigned at the close of the preceding meeting. An attempt will be made to secure an exhaustive examination of the literature of each successive subject, whether treated in books, articles or dissertations published in this country or abroad. After the reading of reports, the members of the seminary will take part in a full oral discussion of the matter presented.

The following advanced undergraduate courses may be attended by graduate students;

Dr. Gwinn gave in 1895-96 the following course:

English Critics of Life : Burke, Carlyle, and Ruskin,

*Three times weekly throughout the year.*

Much of the work in this course consists of private reading and the preparation of papers. The class will, as a rule, meet twice weekly for discussion.

Dr. Gwinn will offer in 1896-97 the following course:

English Critics of the Nineteenth Century,

*Three times weekly throughout the year.*

The critics usually studied are Matthew Arnold, Mr. Swinburne, and Walter Pater. The students are expected to prepare papers.

Mr. Hodder gave in 1895-96 the following course:

Eighteenth Century Poets,

*Twice weekly throughout the year.*

Mr. Hodder will offer in 1896-97 the following course:

English Poets of the Nineteenth Century,

*Twice weekly throughout the year.*

The course is essentially one of seminary work. The authors studied may be varied from year to year. The poets usually chosen are Shelley, Byron, Keats, Wordsworth, Coleridge, Browning, and Rossetti.

### German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of Comparative Philology and German, Dr. Max Blau, Associate in German Literature, and Miss Rose Chamberlin, Reader in German.

#### GRADUATE COURSES.

The graduate courses offered are under the head of General Teutonic Philology.

#### POST-MAJOR COURSES.

Dr. Collitz offers in 1896-97 the following post-major course, open to graduate students :

German Authors of the Sixteenth Century, *Once weekly throughout the year.*

Dr. Blau offers in 1896-97 the following post-major course, open to graduate students :

Nineteenth Century German Literature, *Twice weekly throughout the year.*

This course consists of lectures on German literature since the death of Goethe, accompanied by selected reading. The course includes Hauptmann, Sudermann and the most recent authors.

Miss Chamberlin offers in 1896-97 the following post-major course, open to graduate students :

German Syntax, Advanced Reading and Conversation.

*Twice weekly throughout the year.*

Attention will be given in this course to the needs of students that wish to make teaching their profession. The reading will include selected portions of works of the principal German educators.

#### GENERAL TEUTONIC PHILOLOGY.

The instruction in this department is under the direction of Dr. Hermann Collitz, Associate Professor of Comparative Philology and German. Special attention is called to the facilities for the study of comparative Teutonic philology offered by Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic philology, comprising both the study of the individual languages and that of general comparative philology.



The complete course is intended to cover three years of study. Gothic, Middle High German, General Phonetics, Introduction to the Study of Teutonic Philology are considered as first year courses; Old High German, advanced Middle High German and Old Saxon as second year; Old Norse, Comparative Teutonic Grammar, and the Teutonic Seminary as third year. The study of Anglo-Saxon may be carried on, together with the above courses, for three years. The courses will be varied from year to year, so as to cover within three years all the subjects mentioned. In addition to these courses others in Old Frisian, Dutch, Middle Low German, or Modern Low German may be arranged for advanced students.

There is still much opportunity for original work in Teutonic Philology, and it is hoped that students who have completed the full course will be able to take an active part as investigators.

Dr. Collitz offers in 1896-97 the following graduate courses:

Gothic,

*Twice weekly during the first semester.*

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. Wright's *Primer of the Gothic Language* (Oxford, 1892); or Braune's *Gotische Grammatik* (4th ed., Halle, 1895); and Heyne's *Ulfilas* (8th ed., Paderborn, 1885), are used as text books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student of Teutonic grammar is advised to take this course as early as possible.

High German,

*Twice weekly during the first semester.*

This course is offered to students acquainted with Gothic and Middle High (or at least Modern) German, and includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Middle and Modern High German. Selections are read from O. H. G. texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the differences between the O. H. G. dialects.

Students selecting this course are expected to provide themselves with Braune's *Abriss der althochdeutschen Grammatik* (2d ed., Halle, 1895), and with the same author's *Althochd. Lesebuch* (3d ed., Halle, 1888).

Introduction to the study of Teutonic Philology,

*Twice weekly during the second semester.*

These lectures include the following topics: a discussion of Teutonic in its relation to the cognate Aryan language; a brief sketch of the single Teutonic languages, accompanied by an account of the chief grammatical and lexicographic works on each; a discussion of the aim and method of historical and comparative grammar (including problems like those of the relationship of dialects, of the consistency of phonetic laws, etc.); a brief history of Teutonic Philology, and finally the outlines of General Phonetics.

Old Norse,

*Twice weekly during the second semester*

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course attention will be paid to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts to be read, selections from the younger and the older *Eddas* will take a prominent place. The critical reading of songs from the elder *Edda* will be supplemented by a discussion of the different views on the structure of the Old Germanic alliterative verse.

The books to be used are Sweet's *Icelandic Primer* (Oxford, 1886), or Holthausen's *Altisländisches Elementarbuch* (Weimar, 1895), and Hildebrand's *Edda* (Paderborn, 1876), with Gering's *Glossar* (Paderborn, 1887).

The Teutonic department would like to call attention to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, has been recently acquired by Bryn Mawr College, and hence the library is probably better supplied than any other college library in the United States with Old Norse texts, Norse periodicals, and works on Old Norse language and literature.

### Teutonic Seminary,

*Twice weekly throughout the year.*

This seminary is arranged for the benefit of the most advanced students in Teutonic philology. Its object is to encourage independent work on the part of the students. The exercises will consist mainly in the discussion of special topics by the instructor and the students. The subjects for discussion are announced in advance, and the members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

Dr. Blau offers in 1896-97 the following graduate courses:

Middle High German Grammar and reading of Middle High German Texts, first year course, *Twice weekly throughout the year.*

This course includes a brief abstract of Middle High German grammar, with especial reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied*.

Students of Middle High German should be provided with Wright's *Middle High German Primer* (Oxford, 1888); and with Paul's *Mittelhochd. Grammatik* (4th ed., Halle, 1894).

This course is required of all students that make German the minor subject in their examination for the degree of Doctor of Philosophy.

The private reading will include the works of the authors treated in the course.

Middle High German, second year course, *Twice weekly throughout the year.*

This course is intended for students that have followed the first year's course in Middle High German. The first semester will be devoted to the *Höfisches Epos* (Veldeke, Wolfram, Gotfried von Strassburg, Rudolph von Ems, Konrad von Würzburg), and the second semester to Minnesangs Frühling and Walter von der Vogelweide.

## ROMANCE LANGUAGES.

### French.

The instruction in Romance Languages is under the direction of Dr. Joseph A. Fontaine, Professor of Romance Languages, Dr. Oliver M. Johnston, Lecturer in French Philology, and Dr. Frederic M. Page, non-resident Lecturer in Italian and Spanish.

### GRADUATE COURSES.

Post-major and graduate courses in Old French, Romance Literature, and Philology are offered. They are varied from year to year, and the number of courses and the hours given to each course weekly will be determined by the needs of the students.

The graduate literary work is directed towards a special treatment of some such subjects as the development of the early French drama; French tragedy in the 18th century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French literature twice weekly throughout the two years of the major course in French.

Dr. Fontaine offered in 1895-96 the following graduate courses:

Old French Morphology and Phonetics,	<i>Twice weekly throughout the year.</i>
Old French Syntax,	<i>Once weekly throughout the year.</i>
Epic Poetry,	<i>Once weekly throughout the year.</i>

Dr. Fontaine will offer in 1896-97 the following graduate courses:

French Philology (Morphology and Phonetics),	<i>Twice weekly throughout the year.</i>
Comparative Romance Philology,	<i>Once weekly throughout the year.</i>
This course is open to those graduate students only that have studied Italian and Spanish.	
Dramatic French Literature from its earliest period down to the 16th century,	<i>Once weekly throughout the year.</i>

Dr. Johnston will offer in 1896-97 the following graduate courses:

Old French Philology,	<i>Three times weekly throughout the year.</i>
Old French Reading,	<i>Twice weekly throughout the year.</i>

Dr. Johnston will offer in 1896-97 the following post-major course :

Chanson de Roland and Chrétien's Cligés,	<i>Twice weekly throughout the year.</i>
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### Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Joseph A. Fontaine, Professor of Romance Languages, and Dr. Frederic M. Page, non-resident Lecturer in Italian and Spanish.

The graduate work in Italian and Spanish is under the direction of the instructors of the Romance department. Courses will be arranged to suit the needs of those graduate students who have completed the work of the major courses in Italian and Spanish.

Dr. Page will give in 1896-97 the following minor and major courses, open to graduate students:



FIRST YEAR.  
(*Minor Course.*)

Italian,

*Three times weekly throughout the year.*

Although the instruction, during the first year in Italian must necessarily be linguistic rather than literary, the texts employed in class and for the private reading are of such quality and number as to lead the student to appreciate in a certain measure the range of modern Italian literature.

Besides a systematic course in Italian grammar and composition, the year's work includes the critical reading of Barrili's *Notte Bizzarra*; De Amicis' *Camilla*; thirty cantos selected from Dante's *Inferno* and *Purgatorio*; Pellico's *Francesca da Rimini*; also selections from Manzoni's *Promessi Sposi*; De Amicis' *Vita Militari*; and Tasso's *Gerusalemme Liberata*. As soon as practicable a certain amount of private reading is assigned.

Spanish,

*Twice weekly throughout the year.*

The first year's course in Spanish follows, as far as possible, the plan adopted in Italian.

The material for class and private reading is mainly drawn from the works of nineteenth century authors, such as Fernan Caballero, Selgas, Valera, Castelar, etc.; but it also includes three dramas selected from the works of Lope de Vega, Calderon, and Alarcon.

SECOND YEAR.  
(*Major Course.*)

Italian,

*Three times weekly throughout the year.*

The second year's course is conducted entirely in Italian, and includes: (a) a critical study of Dante's *Paradiso* and *Vita Nuova*, and selections from Ariosto's *Orlando Furioso*, also a survey of the Italian literature of the fourteenth and fifteenth centuries; and (b) one representative drama from the works of Goldoni, Alfieri, and Manzoni, and a critical survey of the Italian literature of the beginning of the nineteenth century.

A course of private reading is selected to represent the Italian literature of the first quarter of the nineteenth century.

Spanish,

*Twice weekly throughout the year.*

The principal subjects of study for the second year are drawn: (a) from the Spanish literature of the seventeenth century, *i.e.*, the best works of Cervantes and the great dramatists; and (b) from the works of the more modern literary movement in Spain.

The private reading is selected from nineteenth century authors.

Students in Italian and Spanish are trained as soon as is practicable, to understand and to speak the languages.

CELTIC AND SLAVONIC LANGUAGES.

Dr. Hermann Collitz, Associate Professor of Comparative Philology and German, will offer courses in Celtic and Slavonic languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

SEMITIC LANGUAGES AND BIBLICAL LITERATURE.

The instruction in Semitic languages is under the direction of Dr. George A. Barton, Associate Professor of Biblical Literature and Semitic Languages.

The courses in Semitic languages and Biblical literature are varied from year to year, so as to form a three years' course for those students who wish to make them the chief subject in the examination for the degree of Doctor of Philosophy; not more than ten hours of lectures will be given in any one year, the courses selected being decided by the needs of the students.

The College was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is particularly rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the College and those easily accessible in neighboring libraries, form a good equipment for the specialist in Biblical or Semitic study.

#### GRADUATE COURSES.

Dr. Barton gave in 1895-96 the following graduate courses:

Advanced Hebrew,

*Twice weekly throughout the year.*

This course consists of the interpretation of portions of the historical books, prophetic books and Psalms, including syntax and Hebrew prose composition.

Advanced Assyrian,

*Twice weekly throughout the year.*

Some of the royal annals, and selections from Assyrio-Babylonian poetry and from the Babylonian contract tablets are interpreted, and especial attention is given to syntax.

Elementary Arabic,

*Twice weekly throughout the year.*

This course consists of a study of the elements of the language, the interpretation of selections from Brunnnow's *Christomathia* and from the *Thousand and One Nights*, together with Arabic prose composition.

History of the Progress and Development of Religious Ideas in the Bible,

*Twice weekly throughout the year.*

Under the guidance of the instructor the students trace the development of the most important religious conceptions, such as the ideas of God, sin, redemption and punishment, from the beginnings of Hebrew history to the close of the New Testament Canon. Selections from the leading works on Semitic religions and on Old and New Testament theology are read in connection with the lectures.

Historical Outlines of Christian Thought,

*Once weekly throughout the year.*

The lectures give a brief survey of Christian thought in the epoch-making periods of its history, the necessary historical background being supplied by assigned readings in works on ecclesiastical history. A sketch is given of the state of Christian thought at the end of the first century, the Ebionitic, Gnostic, and Montanistic movements of the second century, and the positions taken by Irenæus, Tertullian, and Clement of Alexandria are treated, the thought of the Alexandrian Fathers of the period being especially emphasised. The work of Athen-

asius and the system of Augustine, its causes, and its influence on the Middle Ages are next considered, and the Reformation and the theology of Luther, Zwingli, and Calvin are outlined. A special study is made of the condition of England in the seventeenth century, and of the rise of the Society of Friends, the historical affinities of their thought and their relationship to the various religious and philanthropic movements of the seventeenth and succeeding centuries. The course closes with a sketch of the Deistic movement in England and France, the Aufklärung and rationalistic movements in Germany, the thought of Schleiermacher, the origin and effects of Biblical criticism, and the renaissance of modern theology.

Dr. Barton will offer in 1896-97 the following graduate courses:

Assyrian Seminary,

*Twice weekly throughout the year.*

Seminary work is offered in one of the following subjects: Assyrio-Babylonian epic and mythological poetry, Assyrio-Babylonian hymnology, Babylonian contracts and social life, and the El-Amarna tablets. This course will consist of a survey of the literature on the topic selected, and a critical study of some one portion.

Advanced Arabic,

*Twice weekly throughout the year.*

Portions of the Mu'allakat poems and of the Qur'an are interpreted, and especial attention is given to syntax. The grammars of Socin and Wright are used.

History of the Arabic Caliphates and Civilisation,

*Once weekly throughout the year.*

The rise of Mohammedanism is sketched, the history of Medina, Damascus, Spanish, and Bagdad Caliphates is traced, and lectures are given on Arabic administration and law Arabic literature and Mohammedan theology.

Biblical Poetry,

*Once weekly during the first semester.*

The general principles of Hebrew poetry are first examined; then the early lyric poems scattered through the historical books of the Bible are interpreted. The book of Job, and selections from the Psalter and Proverbs are carefully studied, and comparisons with other Semitic poetry are made. A knowledge of Hebrew is not required in this course.

The Old Testament Prophets,

*Once weekly during the first semester.*

In this course the life, times, and writings of Hosea and Isaiah are studied with some thoroughness, and an outline is given of the work of the other prophets.

Pentateuchal Criticism,

*Once weekly during the second semester.*

This course is open only to students that have taken the course on the prophets. The history of the criticism of the Pentateuch is examined, and the laws and narratives of the Pentateuch are carefully studied, so as to enable the student to reach a conclusion for herself with reference to the questions at issue.

An undergraduate course on Biblical Literature is devoted to a study of the literary aspects of the New Testament books. This course is of interest to graduate students.

Dr. Barton will probably offer in 1897-98 courses in Classical and Jewish Aramaic, Phœnician, Ethiopic, and general Semitic Grammar.

## HISTORY AND POLITICAL SCIENCE.

Professors and instructors: Dr. Charles McLean Andrews, Dr. Lindley Miller Keasbey.

## History.

The instruction in history is under the direction of Dr. Charles McLean Andrews, Associate Professor of History.

### GRADUATE COURSES.

Four courses are offered to graduate students in history in addition to direction in private reading and original research. In each year three or four hours of lecture work are given.

Dr. Andrews offered in 1895-96 and will repeat in 1896-97 the following courses :

Historical Method and Criticism, *Twice weekly during the first semester.*

The lectures in this course treat of the great collections of material in Germany, France, Italy, England, and America, and the methods employed in treating such materials; historical criticism from the Renaissance to the present time, including the different kinds of evidence and their treatment, critical analysis, aids to evidence, geography, archæology, etc.

History of the Community, *Once weekly throughout the year.*

This course includes a detailed study of the primitive community, the manor, vill, parish and town in England, and the town, parish, hundred, county and township in America.

History of the Roman Law, *Twice weekly during the second semester.*

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law; the Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

Historical Seminary, *Once fortnightly throughout the year.*

The research work of the historical department is devoted chiefly to the economic history of England and America, and a meeting of the advanced students is held once a fortnight for the discussion of this subject. At this meeting reports are made upon assigned topics; recent articles and books are reviewed, and the results of special investigations presented.

### POST-MAJOR COURSES.

Dr. Andrews gave in 1895-96 the following post-major course, open to graduate students, and will repeat it in 1897-98:

American Constitutional History, *Twice weekly throughout the year.*

No text-books are used in this course, but the members of the class are systematically referred not only to the general authorities but also to colonial charters and constitutions, to the records of the colonial governments as far as they are available, to the journals of Congress, the constitutions of the separate states and of the United States, to State papers, Congressional documents, and other similar accessible material. The method of work is the same as that employed in the course in English Constitutional History. The lectures close with the period of reconstruction.

Dr. Andrews will give in 1896-97 the following post-major course, open to graduate students :

English Constitutional History,

*Twice weekly throughout the year.*

The text-books used in this course are Stubbs' *Select Charters*, Prothero's *Constitutional Documents*, and Gardiner's *Select Documents of the Puritan Revolution*. A reading knowledge of Latin is required for admission to the course. The lectures alternate with the reading and interpretation of selected charters and constitutional documents. Each student is assigned from time to time topics upon which a report is made to the class.

## Political Science.

The instruction in political science is under the direction of Dr. Lindley Miller Keasbey, Associate Professor of Political Science.

### GRADUATE COURSES.

Dr. Keasbey offers in 1896-97 the following graduate courses :

American Economic Geography,

*Once weekly throughout the year.*

In this course a detailed study is made of the American continents and their littoral islands from the point of view of the economic environment. Each student is given a distinct section to map out and report upon. The lectures are general, and cover the whole ground. Special guidance and instruction is given to each student in the preparation of maps, statistics, etc. Reports of the United States Geological Survey, reports of geological societies, geological and geographic treatises and monographs, etc., constitute the material to be investigated.

American Institutions,

*Once weekly throughout the year.*

Each student is expected to follow, under the guidance of the instructor, the evolution of some one of our modern institutions. Original documents, in the way of archives, statutes, and government reports, form the material for such research. The lectures are intended to guide the student in her work and to instruct her in regard to methods.

American Commerce,

*Once weekly throughout the year.*

On the basis of an exact knowledge of the resources of the American continent and a general knowledge of those of other countries, the student is expected in this course to study the past, analyse the present, and form conclusions as to the probable future of American trade and commerce. The lectures will cover the entire ground, and the student is expected to do detailed work of investigation in government documents.

### POST-MAJOR COURSES.

Dr. Keasbey gave in 1895-96 and will repeat in 1896-97 the following post-major course, open to graduate students:

Social Evolution,

*Three times weekly throughout the year.*

This course traces the evolution of savagery and barbarism in ancient America, and analyses the causes of aboriginal institutions. European civilisation is followed from the early days of Greece to the discovery of America, with special reference to the physical conditions of the Old World. The modification of European institutions under the influence of an American environment is then noted from the period of conquest to the present time. A comparison is finally drawn between modern American and modern European institutions on the one hand and between modern American institutions and ancient American institutions on the other. In conclusion, the results of these comparisons are tabulated and the



general tendencies of social evolution set forth. The course is conducted by lectures, and the students are expected to present special written work on the basis of private reading assigned.

## Philosophy.

The instruction in philosophy is under the direction of Dr. Dickinson Sergeant Miller, Associate in Philosophy, and Dr. Lightner Witmer, non-resident Lecturer in Experimental Psychology.

### GRADUATE COURSES

Dr. Miller gave in 1895-96 the following graduate course :

Transcendental Idealism,

*Twice weekly throughout the year.*

The texts read are chosen according to the students' needs and interests from among the chief works of Kant, Fichte or Hegel, and studied with the aid of commentaries, lectures, and discussions. Students are expected to make full reports.

Dr. Miller will give in 1896-97 the following graduate course :

Recent Philosophic Theories,

*Twice weekly throughout the year.*

The aim of the course is to secure the comprehensive and logical treatment of the problems themselves, together with the formation, on the student's part, of just and exact habits of criticism. The problems, and not the authors studied, determine the order and unity of the course. Treatises, monographs, and articles are read so far as they bear upon the subject for the time under consideration, and thus the student gains a comparative and to some extent judicial knowledge of a variety of philosophic writers and points of view.

### MAJOR COURSES.

Dr. Miller and Dr. Witmer offer the following minor and major courses, open also to graduate students :

FIRST YEAR.

*(Minor Course.)*

*(Given in 1896-97.)*

*1st Semester.*

Physiological and Experimental Psychology, Dr. Witmer, *Twice weekly.*

In this course it is proposed to give in brief outline an analysis of the phenomena of the human mind with reference to the accompanying physical and physiological processes. A lecture of one hour and two consecutive hours of class laboratory work with supplementary lecture or demonstration will be given weekly.

The phenomena of the living organism responding with bodily movements to changes in the environment will be presented from the point of view of modern psychology. Simple reflex action will be studied, followed by a consideration of complicated reflex activities and automatic movements in the human subject. The anatomy of the human brain and sense organs will be demonstrated ; models and preserved specimens will be given the class for individual study. The functions of the various parts of the central nervous system will be explained, and a summary given of the results of experimental and pathological investigation into the localisation, in the cerebral cortex, of centres of speech, bodily movements and sensation.

Upon this will follow an analysis of the phenomena of sensation, perception, pleasure and pain, memory, association, apperception, attention, emotion and volition. The antecedent

physical stimuli and the physiological processes that accompany and succeed these primary mental processes will be considered, and as far as possible experimentally demonstrated.

Simple experiments will be carried out by the class. These will be arranged to serve the purpose of illustrating the subject-matter of the course and to introduce the student into the modern methods of psychological experimentation.

Students electing this course must pay a laboratory fee of three dollars.

British Philosophy of the 17th and 18th Centuries,—Hobbes, Locke, Berkeley and Hume, Dr. Miller, *Three times weekly.*

The design of this course is to acquaint the student with the classic masterpieces of British philosophy; to discuss their relation to the body of English literature; to arrive at an exact apprehension of the authors' meaning; to mark in detail the gradual advance of thought; to compare historic theories with the views now current; and to examine into the truth, or (if obviously false) into the suggestive value of the several writers' opinions.

## *2nd Semester.*

Psychology, chiefly of Intellect, Emotion and Will, Dr. Miller, *Three times weekly.*

With the aid of various monographs, articles and portions of treatises, assigned for private reading, the lectures and discussion treat of certain problems in the psychology of human reason, passion and action.

British Philosophy (continued), *Twice weekly.*

## SECOND YEAR.

(*Minor Course.*)

(*Given in 1895-96, and again in 1897-98.*)

## *1st Semester.*

Problems in the Philosophy of Nature, Dr. Miller, *Twice weekly.*

Certain fundamental questions as to the constitution and course of nature, the meaning of natural law, the principle of cause and effect, the uniformity of nature, and the teleological and the mechanical points of view are systematically studied. One or more text-books are employed; but the chief weight is laid upon the controversial articles and treatises to which the student is constantly referred, illustrative of the different positions taken and of the range of modern philosophic debate. The class-work consists of lectures and discussion guided by the instructor.

Continental Philosophy of the 17th Century (Descartes, Malebranche, Spinoza, Leibnitz), Dr. Miller, *Three times weekly.*

This is an historical course similar in character to that on British Philosophy. Descartes's *Discours*, *Méditations*, and (in part) *Principia*, Spinoza's *Ethics*, Leibnitz's *Monadology*, and (in part) *Theodicy*, are read.

## *2nd Semester.*

Æsthetics, Dr. Miller, *Twice weekly.*

This course treats of the psychology and philosophy of our æsthetic pleasures and displeasures, with especial reference to literature and the fine arts, and to the physiological theory of pleasure and pain. Class-work is conducted as in the first semester. Portions of the æsthetic writings of Vischer, Fechner, and Bosanquet are considered. Expository lectures are given on the æsthetic doctrines of Kant and some of his successors in the Transcendental school.

Continental Philosophy (continued), *Three times weekly.*

## History of Art and Archæology.

This department is under the direction of Mr. Richard Norton, Lecturer in the History of Art.

### GRADUATE COURSES.

Mr. Norton offers in 1896-97 the following graduate course:

Classical Archæology,

*Twice weekly throughout the year.*

This course consists of a detailed investigation of some of the problems met with in the study of Greek and Roman life, and is open only to students of Greek and Latin. The students report from time to time on special subjects.

Mr. Norton offers in 1896-97 the following undergraduate courses, open to graduate students:

History of Greek Art,

*Twice weekly throughout the year.*

The lectures begin with a short study of the art of the Eastern races (Egyptians, Assyrians, Phœnicians) whose civilisations preceded and influenced the development of Greek culture. Sculpture, as being the most characteristic form of art expression in Greece, and as existing in a continually increasing number of examples, forms the main topic of the course. The less well-known branches of art are also considered, but in a less detailed manner. The lectures are illustrated by photographs.

History of Italian Art,

*Twice weekly throughout the year*

The purpose of this course is to show the mutual interdependence of Italian life and art during the Renaissance. Painting forms the main subject of the course, since it was in this form of art that the vital characteristics of the Italian genius found their fullest expression. The lectures are illustrated by photographs.

History of Greek Art, Advanced Course,

*Twice weekly throughout the year.*

*(Open to those students only that have taken the general course.)*

The work will consist of a detailed study of the more important artists and works of art of Greece. The students will be required to write numerous reports on various subjects. These will be read to and criticised by the class for the purpose of teaching the students the principles on which criticism of works of art must be based.

History of Italian Art, Advanced Course,

*Twice weekly throughout the year.*

*(Open to those students only that have taken the general course.)*

This course is meant to supplement and carry on the general course. Reports on various subjects will be required from the students, and these, as in the advanced course in Greek Art, will be discussed and criticised by the class.

## Mathematics.

The instruction in mathematics is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Mr. James Harkness, Professor of Mathematics.

### GRADUATE COURSES.

The Graduate Courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the

courses being varied from year to year with reference to the wishes and the preparation of the students concerned, so that while the course in any one year is complete in itself, a graduate student may, if she wish, follow the courses for more than two consecutive semesters.

Dr. Scott gave in 1895-96 the following graduate course:

Higher Plane Curves, Theories of Transformation and Correspondence.

*Twice weekly throughout the year.*

The lectures deal with Cremona and birational transformations, and with the theory of Correspondence, presupposing a general knowledge of the theory of Plane Algebraic Curves as given, *e.g.*, in the first four or five chapters of Salmon's *Higher Plane Curves*. To a certain extent the lectures relate to chapter viii. of this work, and to chapters iv. and vi. of Clebsch, *Vorlesungen über Geometrie*; but so much of the development of the subject is quite recent that the greater part of the reading recommended consists of memoirs in the various mathematical periodicals, and a reading knowledge of French and German is therefore absolutely essential.

Dr. Scott will offer in 1896-97 the following graduate course in continuation of the course given in 1895-96:

Theory of Plane Algebraic Curves, *Twice weekly throughout the year.*

This course will be devoted chiefly to geometry on an algebraic curve.

Mr. Harkness gave in 1895-96 the following graduate course:

Algebraic Functions, Elliptic and Abelian Integrals,

*Twice weekly throughout the year.*

A knowledge of the elements of the Theory of Functions is presupposed, and the lectures deal with Riemann's and Weierstrass's methods. The object of the course being to provide the student with a working knowledge of Elliptic and Abelian integrals and functions, particular attention is paid to algebraic functions and their associated Riemann Surfaces. Frequent references are made to recent memoirs in French and German periodicals; it is therefore important that students attending this course should have a reading knowledge of French and German.

Mr. Harkness will offer in 1896-97 one of the following graduate courses:

Elliptic Functions, *Twice weekly throughout the year.*

General Theory of Functions, *Twice weekly throughout the year.*

#### POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students will frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to four or five hours weekly. The courses given are the following, with occasional modifications :

I. (a.) Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*, Dr. Scott.

or, I. (b.) Lectures on Modern Geometry, in connection with Chasles' *Géométrie Supérieure*, and Reye's *Geometrie der Lage*, Dr. Scott.

or, I. (c.) Lectures on Modern Higher Algebra, in connection with Salmon's *Modern Higher Algebra*, Dr. Scott.

II. (a.) Lectures Introductory to Modern Algebra and the Theory of Functions, in connection with Chrystal's *Algebra*, Vol. II., Mr. Harkness.

or, II. (b.) Lectures on Differential Equations, with an Introduction to the Theory of Functions, in connection with Forsyth's *Differential Equations*, and Jordan's *Cours d'Analyse*, Mr. Harkness.

or, II. (c.) Lectures on Differential Equations (elementary), in connection with Forsyth's *Differential Equations*, Mr. Harkness.

The courses given in the year 1895-96 were:

I. (b.) Dr. Scott.

*Twice weekly throughout the year.*

The text-book is Reye, *Die Geometrie der Lage*, and the lectures follow the lines of this work; but supplementary reading is assigned during the year for students desiring a more extended course in the subject.

I. (c.) Mr. Harkness.

*Twice weekly throughout the year.*

The text-book is Gordan, *Vorlesungen über Invarianten-theorie*, and special attention is paid to the symbolic methods employed in that work. Supplementary reading is assigned in Salmon's *Modern Higher Algebra*, and other text-books.

The courses offered in the year 1896-97 are;

I. (a.) Modern Analytical Geometry, Dr. Scott,

*Twice weekly throughout the year.*

or, An Elementary Course in Higher Plane Curves, Dr. Scott,

*Twice weekly throughout the year.*

II. (c.) Differential Equations, Mr. Harkness,

*Twice weekly throughout the year.*

or, Theory of Substitution Groups, Mr. Harkness,

*Twice weekly throughout the year.*

While there is, as yet, no separate department of Mathematical Physics, the instructors in Mathematics and Physics will give all necessary direction and assistance to students whose preparation for the degree of Doctor of Philosophy involves work in this subject.



## SCIENCE.

### Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Edward H. Keiser, Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Dr. Arthur Stanley Mackenzie, Dr. Elmer P. Kohler, Dr. Edgar Buckingham, Dr. Harriet Randolph, and Dr. Florence Bascom.

Graduate work in the natural sciences is highly special, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, biological, and physical laboratories are open for students throughout the day.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories and lecture-room are carefully furnished with the necessary apparatus needed for thorough work.

### Physics.

The instruction in physics is under the direction of Dr. Arthur Stanley Mackenzie, Associate Professor of Physics, and Dr. Edgar Buckingham, Associate in Physics and Physical Chemistry.

#### GRADUATE COURSES.

Dr. Mackenzie offered in 1895-96 the following graduate course:

Theory of Electricity and Magnetism, *Three times weekly throughout the year.*

The work in this course covers most of the ground of Maxwell's Treatise. Copious references for private reading are made to Mascart and Jaubert, Duhem, Poincaré, etc.

Dr. Mackenzie will offer in 1896-97 the following graduate course :

Theory of Sound, Problems in Heat Conduction,

*Three times weekly throughout the year.*

This course will begin with a discussion of Fourier's Theorem. The lectures on Sound will be based upon Lord Rayleigh's *Theory of Sound*, and those on Heat Conduction upon Fourier's *Analytical Theory of Heat*.

Dr. Buckingham offered in 1895-96 and will offer again in 1896-97 the following course :

Thermodynamics,

*Twice weekly throughout the first semester.*

This course treats mainly of the newer applications of Thermodynamics, especially the work of Willard Gibbs, Helmholtz, and van't Hoff. References are made to Duhem's *Le potentiel thermodynamique et ses applications* (Hermann, 1886, Paris).

Drs. Mackenzie and Buckingham conduct in each year the physical seminary, the Journal meeting, and the laboratory work.

Physical Seminary,

*Monthly throughout the year.*

All advanced students are expected to meet with the instructors once a month to hear or read papers on assigned topics.

Journal Meeting,

*Three times monthly throughout the year.*

The laboratory work is arranged for the purpose of familiarising the student with the methods of research ; she will begin by repeating methods and investigations of well-known experimenters, with any modification that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in work in the laboratory. The laboratory is provided with special rooms for magnetic, optical, and electrical work, and in the basement is a constant-temperature vault designed for accurate comparisons of lengths, etc. The stock of apparatus is being added to yearly.

POST-MAJOR COURSES.

Dr. Mackenzie offers in 1896-97 the following post-major course, open to graduate students:

*1st Semester.*

Theory of Optical Instruments,

*Twice weekly.*

These lectures will mainly treat of the design and construction of optical instruments, of the methods of applying them to research, and of the results obtained. Especial attention will be given to the polariscope, spectrometer, and diffraction grating.

*2nd Semester.*

Spectrum Analysis and Polarisation,

*Twice weekly.*

## Physical Chemistry.

The instruction in physical chemistry is under the direction of Dr. Buckingham, Associate in Physics and Physical Chemistry.

### GRADUATE COURSES.

The graduate work in physical chemistry consists mainly of laboratory work designed to familiarise the student with the modern methods of physical-chemical research. The laboratory work is accompanied by reading of the original papers on the subjects studied in the laboratory. Students who are sufficiently advanced are directed in their reading and research work in preparation for the degree of Doctor of Philosophy.

A knowledge of French and German and some familiarity with Differential and Integral Calculus are indispensable for those who wish to take advanced work, and are of great assistance to all students.

Dr. Buckingham offers in 1896-97 the following graduate course:

Thermodynamics,

*Twice weekly during the second semester.*

This course is a continuation of Dr. Buckingham's graduate course in Thermodynamics, described under Physics. It deals with the modern applications of thermodynamics to problems in physical chemistry.

Dr. Buckingham conducts the Journal meeting and the Seminary work dealing with physical chemistry.

Seminary,

*Monthly throughout the year.*

Journal Meeting,

*Three times monthly throughout the year.*

These are held in connection with the similar meetings of the physical department.

### POST-MAJOR COURSES.

Dr. Buckingham offers in 1896-97 the following post-major courses, open to graduate students:

General Physical Chemistry.

*1st Semester.*

Elements of Thermodynamics ; Thermochemistry ; Theory of Solutions,

*Twice weekly.*

*2nd Semester.*

Gulaberg and Waage's Mass Law, Reaction Velocities, Gibbs Phase Rule, and Chemical Equilibria, Electrochemistry,

*Twice weekly.*

This course is open to those students only that have taken the minor courses in chemistry and physics, or their equivalents. Five hours laboratory work weekly is expected from students taking this course.

## Chemistry.

The instruction in chemistry is under the direction of Dr. Edward H. Keiser, Professor of Chemistry, and Dr. Elmer P. Kohler, Associate in Chemistry.

### GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic and theoretical chemistry, seminary work, reports upon current chemical literature and laboratory exercises. Of these the laboratory work is the most important. Students who have taken the minor and major courses, or their equivalent, begin with exercises intended to give them a comprehensive knowledge of chemical methods and operations; namely, the preparation of typical inorganic and organic compounds, special methods of analysis and physical methods used in chemical investigations. This is followed by researches upon assigned topics. In all the laboratory work the students are required to become familiar with the literature bearing upon the subjects they are studying, and it is therefore necessary for them to have a reading knowledge of French and German.

The lecture courses are varied from year to year, to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the chief subject in the examination for the degree of Doctor of Philosophy.

Dr. Keiser offered in 1895-96 the following graduate course :

Selected Topics in Theoretical Chemistry, *Once weekly throughout the year.*

These lectures are mainly upon the recent developments of chemical theory, upon the theory of solutions, upon thermo- and electro-chemistry, and upon the principles of energetics as applied to chemical phenomena.

Chemical Seminary, *Once fortnightly throughout the year.*

Dr. Keiser will offer in 1896-97 the following graduate course :

Chemical Dynamics, *Once weekly throughout the year.*

This course embraces such subjects as law of mass action, velocity of chemical reactions, influence of temperature upon chemical change, equilibrium, homogeneous and heterogeneous equilibrium in condensed systems, chemical affinity.

Seminary Work. Special subject, Thermo-chemistry, *Once weekly throughout the year.*

Dr. Kohler offered in 1895-96 the following course :

Aliphatic Compounds, • *Once weekly throughout the year.*

This course is upon paraffine hydrocarbons and their derivatives, the alcohols, acids, aldehydes, ketones, esters, etc.

Drs. Keiser and Kohler conducted the Journal Meeting in 1895-96 :

Journal Meeting, *Once fortnightly throughout the year.*

The advanced students meet to give reports and hold discussions on articles that have recently appeared in the chemical journals.

Dr. Kohler will offer in 1896-97 the following graduate course:

Homocyclic Compounds,

*Once weekly throughout the year.*

The aromatic compounds, benzene, its homologues, naphthalene, anthracene, and their derivatives are the main subjects considered.

Seminary Work. Special subject, Stereo-chemistry,

*Once weekly throughout the year.*

In the work of the seminary selected topics are assigned to each member, the object in view being to familiarise the students with chemical literature. Each student is required to read all the original papers bearing upon the subject assigned to her, and to inform herself of the present state of knowledge in regard to it. The results of this work are embodied in a paper which is read by the student and discussed in the seminary meetings.

Drs. Keiser and Kohler will conduct the Journal Meeting in 1896-97:

Journal Meeting,

*Once fortnightly throughout the year.*

#### POST-MAJOR COURSES.

Dr. Keiser offers in 1896-97 the following post-major course, open to graduate students:

Introduction to the Modern Theories of Chemistry,

*Once weekly throughout the year.*

This course begins with a discussion of the general laws of gases, liquids, solids, and solutions. The kinetic theory of matter is then taken up, and its applications to determinations of molecular weights of gases and of substances in dilute solutions are considered. The laws of stoichiometry, of gas volumes, and of the periodicity of the properties of the elements are then treated, and in connection with these the atomic theory and the determinations of atomic weights are discussed. This is followed by a study of the methods of determining molecular constitutions, and of the theories of valence. The students use Nernst's *Theoretical Chemistry*, and Ostwald's *Elements of General Chemistry*.

Dr. Kohler offers in 1896-97 the following post-major course, open to graduate students:

Advanced Organic Chemistry,

*Once weekly throughout the year.*

#### Geology.

This department is under the direction of Dr. Florence Bascom, Lecturer in Geology.

#### GRADUATE COURSES.

Dr. Bascom will offer in 1896-97 the following graduate course:

Lectures on Mineralogy,

*Twice weekly throughout the year.*

This course is open to graduate students that wish to make mineralogy a minor subject for the degree of Doctor of Philosophy. The lectures treat of crystallography, of optical and general physical mineralogy, and of descriptive mineralogy, and are illustrated by crystal



models and by minerals. In the laboratory opportunity is given for the study of crystal forms, of optical methods, of mineral determinations, and of mineral species.

William's *Crystallography* and the works of Hintze, Groth, Tschermak, Story-Maskelyne, and Dana are used as reference books.

A course in Petrography may be arranged if desired, and will be open only to students that have taken the post-major course in Geology or its equivalent.

Laboratory Work,

*Once weekly throughout the year.*

#### POST-MAJOR COURSES.

Dr. Bascom gave in 1895-96 and will offer in 1896-97 the following post-major course, open to graduate students:

Lectures on Geology,

*Twice weekly throughout the year.*

This course is open to graduate students and to undergraduate students that have studied chemistry for at least one year. The lectures embrace a general survey of the whole field of geology—cosmical, lithological, dynamical, structural, historical, and physiographic. They are illustrated by mineral, rock, and fossil specimens, and by charts. No text-book is used, but the best English, German, and French manuals are accessible for reference.

Laboratory Work,

*Twice weekly throughout the year.*

The laboratory work consists in the study and use of methods of mineral and rock determination, and in gaining familiarity with the typical flora and fauna of the successive geological formations.

Field Work.

For the field work, excursions will be made on Saturdays during the autumn and spring into the immediate neighborhood. More extended excursions will be taken, as the course progresses, among the crystalline rocks of the South Mountain Range and the fossiliferous formation of the Coastal plain.

#### Biology.

The instruction in biology is under the direction of Dr. Thomas Hunt Morgan, Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, and Dr. Harriet Randolph, Demonstrator in Biology and Reader in Botany.

#### GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make Biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren.

Dr. Morgan gave in 1895-96 and will repeat in 1896-97 the following graduate course:

Morphology, The Structure of Protoplasm and of the Cell,

*Once weekly throughout the year.*

This course of lectures deals with the ultimate structure of protoplasm. The structure of the centrosome and of the nucleus, the mechanism of cell-division, and the maturation of spermatozoon and ovum are described. The evidence given by experimental embryology towards a solution of the problem of the structure of the egg-cell is carefully considered.

Dr. Warren gave in 1895-96 the following graduate course :

Physiology, Methods of Research, especially the Graphic Method, and  
Problems of Nutrition, *Once weekly throughout the year.*

Dr. Warren offers in 1896-97 the following graduate course :

Physiology of the Special Senses, *Once weekly throughout the year.*

Drs. Morgan and Warren conduct in each year the Journal Club, Seminary, and laboratory work.

Journal Club.

The advanced students meet once fortnightly for the presentation and discussion of topics of current biological literature.

Seminary.

The graduate students meet once fortnightly for the formal presentation of topics assigned them.

Laboratory work.

There is no regular course of laboratory instruction for graduates. Each student desiring to devote a considerable portion of her time to such work will be given an experimental problem for verification or extension. The nature of the work will in each case depend on the qualifications of the student.

#### POST-MAJOR COURSES.

Dr. Morgan gave in 1895-96 and will repeat in 1896-97 the following post-major courses, open to graduate students:

Embryology, *Once weekly throughout the year.*

This course consists of lectures on the embryology of the vertebrates. The more important embryological problems are discussed in connection with the lectures. An attempt is made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, conrescence, etc.

General Zoölogy, *Once weekly throughout the year.*

The lectures or recitations are accompanied by demonstrations and laboratory work, and are intended to cover the ground of such text-books as Hatschek's *Lehrbuch*, or Lang's *Vergleichende Anatomie*. In connection with the work a few of the important monographs on the large groups are studied.

Dr. Warren gave in 1895-96 and will repeat in 1896-97 the following post-major courses, open to graduate students:

Advanced Physiology, *Once weekly throughout the year.*

The topics to be selected depend upon the previous training of the students, and as far as possible the preferences of the student are consulted. Occasional conferences are held for the discussion of essays prepared by the students and presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

Lectures and Recitations on the Structure and Functions of the Central Nervous System,  
*Once weekly throughout the year.*

Drs. Morgan and Warren conduct laboratory work in connection with the above courses:

Laboratory work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student experience in the use of apparatus and its adaptation to research. Some special problem, moreover, will be assigned to each student. At the end of the year the results of the work will be presented in writing.

## COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The College grounds cover fifty acres, and include lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms, seminary-rooms and reading-rooms for graduate students, and the offices of administration.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a large building erected by the Trustees out of funds in part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific laboratories, lecture-rooms, special scientific libraries and the private rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, and the third floor for chemistry. The fourth floor contains the geological lecture-rooms and laboratories, and research-rooms for advanced students. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the *alumnæ* and students.

Around Taylor Hall the Trustees have erected halls of residence for the accommodation of students. Plans and descriptions of the five halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall East and West, and plans of the aca-

demic buildings, Taylor Hall and Dalton Hall, are annexed to the present program. Ample provision has been made in the basement of Merion Hall for the accommodation of bicycles, and music-rooms with sound-proof walls and ceilings are provided in the basement of Pembroke Hall East.

The Gymnasium, which is open to the students at all times, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director, with an adjoining room for the examination and record of the physical development of the students, and bathrooms for use after exercise. In the basement is a swimming tank, seventy-five feet long, twenty feet wide, and from four to seven and one-half feet deep, given in 1894 by the alumnae, students, and friends of the college, and well supplied with springing boards, life preservers, and other apparatus for teaching swimming. The gymnasium has been built in accordance with the system of Dr. Sargent, is furnished with his complete apparatus, and is under the charge of a director who has completed his course of instruction, and an assistant trained in the Swedish system.

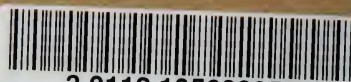
There is on the grounds, separated from the other buildings, a Cottage Infirmary or Hospital with accommodations for patients and nurses, and its own kitchen and bath-rooms.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Horses for riding and driving may be kept at livery near the college, at a cost of twenty-five dollars a month.

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